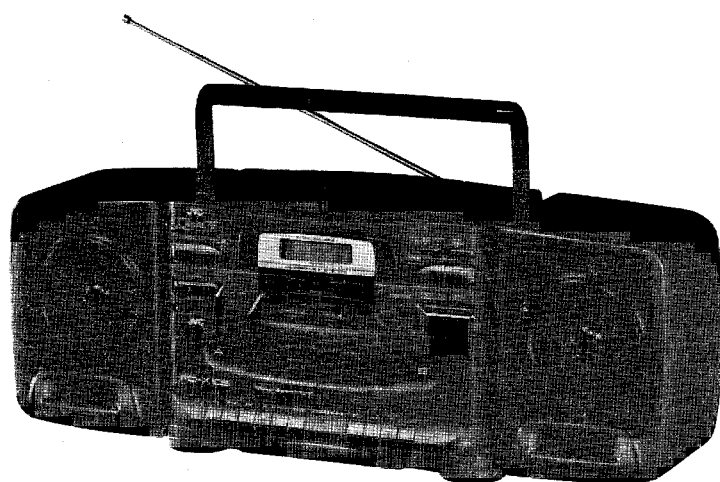


JVC

SERVICE MANUAL

CD PORTABLE SYSTEM

PC — X105 C/J



COMPACT
disc
DIGITAL AUDIO


Area Suffix

C Canada
J U.S.A.

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1. Safety Precautions

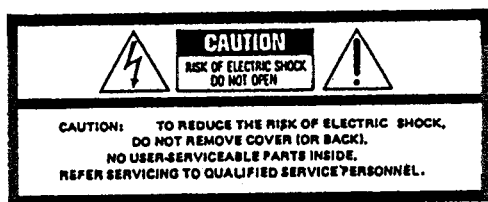
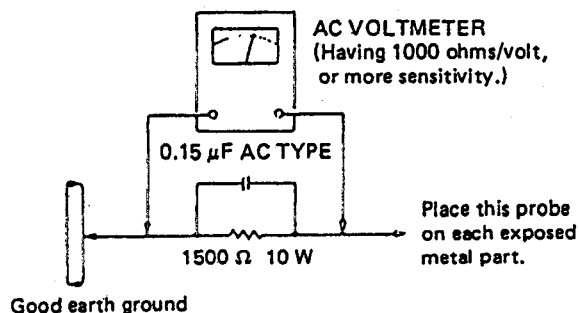
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety — related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified by () on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re — assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA



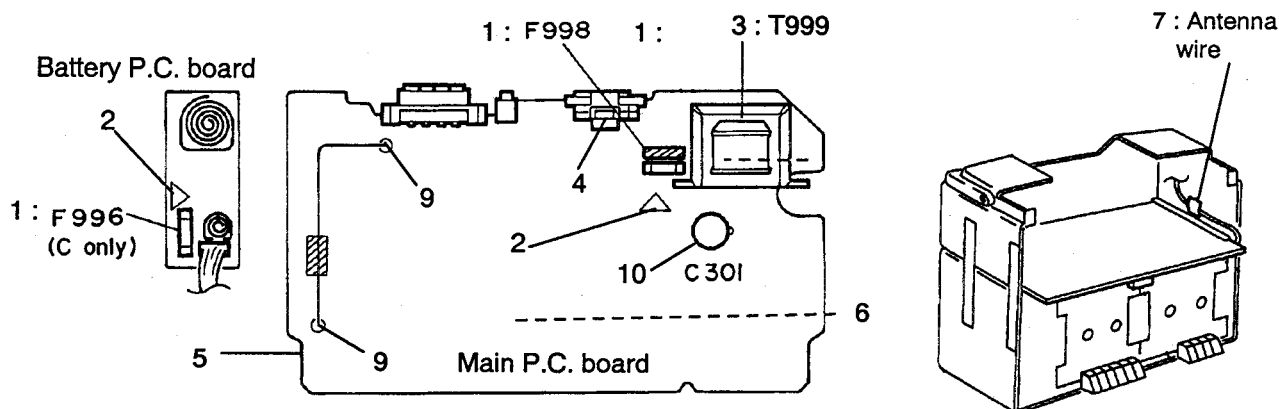
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

2. Safety precaution about PC – X105

■ Important Management Points Regarding Safety



★ PC – X105J ONLY

Full Fuse Replacement Marking

Graphic symbol mark (This symbol means fast blow type fuse.)



should be read as follows:

FUSE CAUTION

**F998 : FOR CONTINUED PROTECTION AGAINST RISK
OF FIRE, REPLACE ONLY WITH SAME TYPE 5 – A,
125 – V FUSE**

1. Before installation confirm the fuse capacity indication, (UL) and CSA marks on the fuse capacity when installing confirm if the fuse is held tightly with the fuse holder.

2. Concerning the fuse caution, letter written in English and French must be confirmed.

★ PC – X105 C ONLY

Full Fuse Replacement Marking

Graphic symbol mark (This symbol means fast blow type fuse.)



should be read as follows:

FUSE CAUTION

**FOR CONTINUED PROTECTION AGAINST RISK
OF FIRE, REPLACE ONLY WITH SAME TYPE AND
RATING OF FUSE(S).**

F998 : 5A /125V

F996 : 5A/125V

★ PC – X105 C SEULEMENT

Marquage Pour Le Remplacement Complet De Fusible

Le symbole graphique (Ce symbole signifie fusible de type à fusion rapide.)



doit être interprété comme suit:

PRECAUTIONS SUR LES FUSIBLES

**POUR ASSURER UNE PROTECTION CONTINUE
CONTRE LES RISQUES D'INCENDIE, REMPLACEZ
UNIQUEMENT PAR UN (DES) FUSIBLE(S) DU MÊME
TYPE ET DE MÊME AMPÉRAGE.**

F998 : 5A/125V

F996 : 5A/125V

3. •Power transformer marking

: UL Approved number (71F148HD)/PC – X105J

: Parts number (FMTP57A2 – 12A) /PC – X110C

•The torque of the screw driver for the power transformer must be controlled.

4. Concerning the AC socket, the next marking must be confirmed and to avoid printed circuit board pattern damage, the AC socket must not float from print circuit board.

Marking ; HSC1566(PC – X105J)

HSC1466(PC – X105C)

5. Concerning the primary terminal and the adjacent secondary terminal on the printed circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.

6. The parts on the pattern side of the print circuit board must be fixed with spacers or bond.

7. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts moving part, hot part, or sharp edges.

8. Following parts are controlled as the heated parts. confirm that the flammable parts are lifted up the parts in () must be controlled.

D996, D997, D998, D999, (IC101)

9. The single wire on the printed circuit board must be fixed with spacer or bond.

10. Confirm the following parts specified in the UL and CSA reports.

UL C301 Vent type

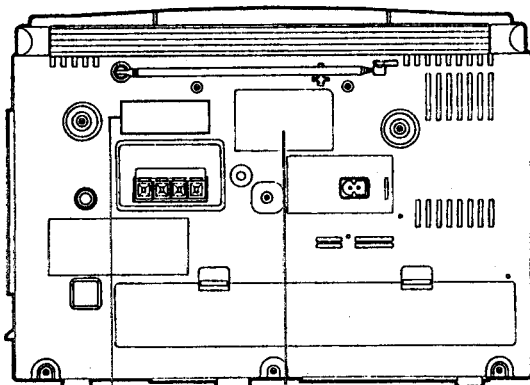
CSA No confirm

IMPORTANT FOR LASER PRODUCTS (For U.S.A. only)

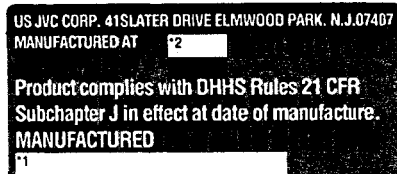
PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

IDENTIFICATION LABEL AND CERTIFICATION LABEL



NAME/RATING PLATE



Notes:

*1 The date of manufacture.

*2 The ID code of manufacturing plant.

3. Main Features

1. **One-touch operation (COMPU PLAY) (only when AC power is used)**
 - When a source button (CD, tape, or tuner) is pressed, the unit's power is turned on and initiates playback even when the power is set to STANDBY.
2. **Multi-function CD player.**
 - CD player with programmed play of up to 20 tunes/ repeat play function.
 - 8-cm (3-3/16") "CD singles" capability.
3. **Multi-Bass Horn circuit for low-frequency sound reproduction.**
4. **2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM) preset capability**
 - Seek/manual tuning
 - Auto preset tuning
5. **Synchro-record start for CD recording convenience.**
6. **Double-cassette mechanism (Deck A for recording and playback, Deck B for playback).**
 - Metal and CrO₂ tapes can be played back for superior tone quality.
 - Synchro-start dubbing function (normal/high speed dubbing).
 - Relay playback (from Deck B to Deck A).

4. Specifications

Compact disc player section

Type	: Compact disc player
Signal detection system	: Non-contact optical pickup (semiconductor laser)
Number of channels	: 2 channels (stereo)
Frequency response	: 20 Hz – 20,000 Hz
Signal-to-noise ratio	: 76 dB
Wow & flutter	: Less than measurable limit

Radio Section

Frequency range	: FM 87.5 – 108 MHz AM 530 – 1,710 kHz
Antennas	: Telescopic antenna for FM Ferrite core antenna for AM

Tape deck Section

Track system	: 4-track 2-channel stereo
Motor	: Electronic governor DC motor for capstan
Heads	: Deck A: Hard permalloy head for recording/playback, magnetic head for erasure Deck B: Hard permalloy head for playback
Frequency response	: 63 – 12,500 Hz (with normal tape/normal speed)
Wow & flutter	: 0.15% (WRMS)
Fast wind time	: Approx. 120 sec. (C-60 cassette)

General

Power output	: 4.2 watts per channel, min RMS, at 3 ohms from 80 Hz to 15 kHz with no more than 10% total harmonic distortion (PC-X105J) Max. 15.4 W (7.7 W + 7.7 W) at 8 Ω (PC-X105C)
Output terminals	: PHONES x 1 [Output level: 0 – 12 mW/32 Ω, Matching impedance: 16 Ω – 1kΩ] SPEAKER OUTPUT x 2 Matching impedance: 3 Ω–16 Ω

Power supply	: AC 120 V, 60 Hz DC 12 V ("D" cells x 8)
Power consumption	: 28 W (with POWER SW ON) 2.2 W (with POWER SW STANDBY)
Dimensions	: 683 (W) x 252 (H) x 233 (D) mm (26-7/8" x 10" x 9-3/16") including knobs
Weight	: Approx. 7.5 kg (16.6 lbs) with batteries Approx. 6.7 kg (14.8 lbs) without batteries
Accessories provided	: AC power cord

Speaker Section (each unit)

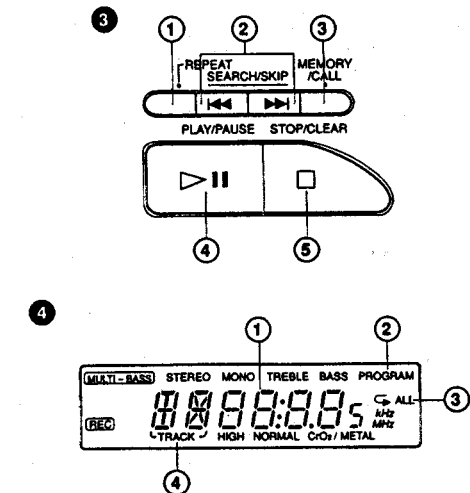
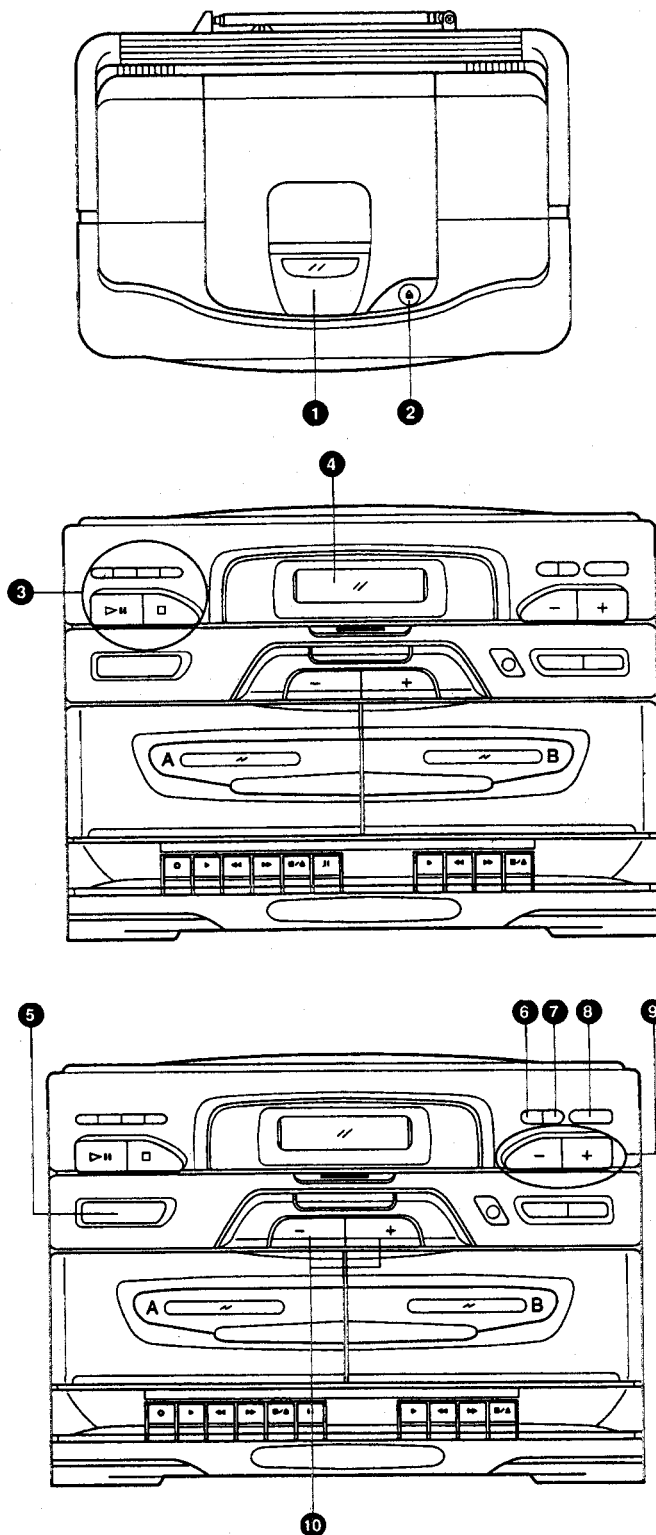
Speakers	: 10 cm (3-15/16") x 1
Impedance	: 3 Ω
Dimensions	: 170 (W) x 235 (H) x 202 (D) mm (6-3/4" x 9-5/16" x 8")
Weight	: Approx. 1.3 kg (2.9 lbs)

Design and specifications are subject to change without notice.

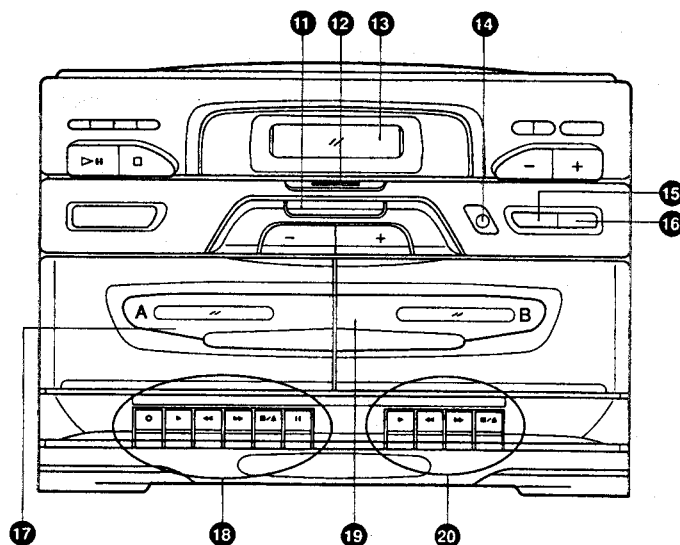
5. Instructions (Extract)

NAMES OF PARTS AND THEIR FUNCTIONS

• Top and front panels



- ① Disc holder
- ② Disc holder open button (△)
- ③ CD operation buttons
 - ① REPEAT button
 - ② SEARCH/SKIP (◀◀/▶▶) buttons
 - ③ MEMORY/CALL button
 - ④ PLAY/PAUSE (▶||) button
 - ⑤ STOP/CLEAR (□) button
- ④ Display window (CD player section)
 - ① Playback time display
 - ② PROGRAM mode indicator
 - ③ Repeat playback indicator (≡ ALL)
 - ④ Function/Track number display
- ⑤ POWER button
- ⑥ PRESET TUNING button
- AUTO PRESET button
- ⑦ MEMORY button
- ⑧ BAND/FM MODE button
- ⑨ TUNING buttons
 - DOWN frequency
 - UP frequency
- ⑩ VOLUME buttons
 - +: Use to increase the volume or tone (BASS/TREBLE).
 - : Use to decrease the volume or tone (BASS/TREBLE).
 - (The level can be changed from VOL 0 to VOL 25.)



11 Multi-Bass Horn button

- on: The Multi-Bass Horn indicator will light.
Set to this position to listen to the Multi-Bass Horn sound
off: The Multi-Bass Horn indicator goes out.
Set to this position when the Multi-Bass Horn sound is not required.

12 Multi-Bass Horn indicator

13 Display window

- (Tuner section)
Band indicator (FM/AM)
Radio frequency display
MONO indicator
STEREO indicator
Preset station display
(Tape deck/amplifier section)
Tape mode display
CrO₂/METAL tape indicator
NORMAL speed indicator
HIGH speed indicator
Recording indicator (REC)
MULTI-BASS indicator

14 BASS/TREBLE button

- Used to select BASS or TREBLE to be adjusted with the VOLUME button. (The level setting ranges are from -6 to 6.)

15 TAPE (FOR PLAYBACK) switch

- Set this switch according to the type of tape to be used.
CrO₂-METAL: (playback only)
Set to this position to listen to a chrome (type II) or metal (type IV) tape.

NORMAL:

- Set to this position to listen to a normal (type I) tape. The "normal tape" indicator is not indicated in the display window.

16 DUBBING SPEED switch

HIGH:

- Set to this position when dubbing at high-speed.

NORMAL:

- Set to this position when dubbing at normal-speed.

17 Cassette holder (Deck A)

18 Cassette operation buttons (Deck A)

○ REC:

- Press this button with the ► PLAY button to start recording.

► PLAY:

- Press to play the tape.

◀◀ REW:

- Press to rewind the tape rapidly.

▶▶ FF:

- Press to wind the tape forward rapidly.

■/▲ STOP/EJECT:

- Press to stop the tape. Pressing this button when the tape has stopped opens the cassette holder.

|| PAUSE:

- Press to stop the tape momentarily. Press again to release the pause mode.

19 Cassette holder (Deck B)

20 Cassette operation buttons (Deck B)

► PLAY:

- Press to play the tape.

◀◀ REW:

- Press to rewind the tape rapidly.

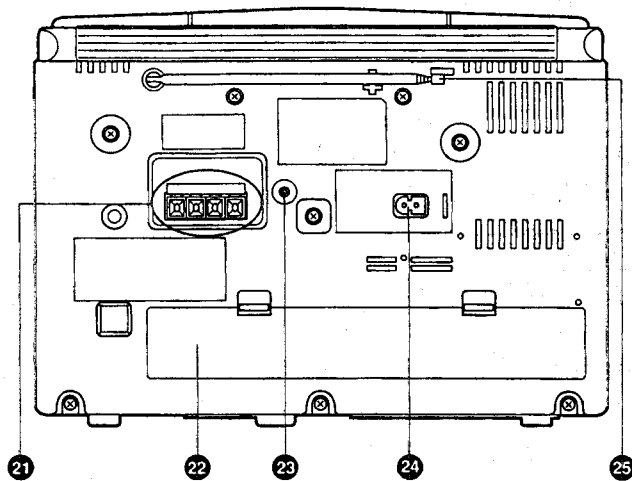
▶▶ FF:

- Press to wind the tape forward rapidly.

■/▲ STOP/EJECT:

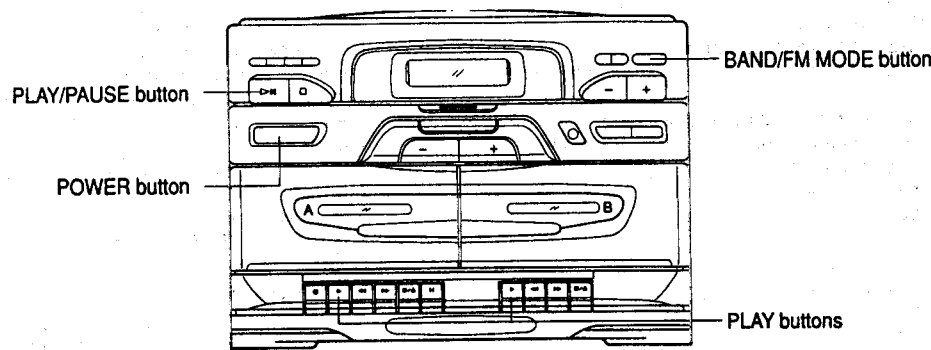
- Press to stop the tape. Pressing this button when the tape has stopped opens the cassette holder.

● Rear Panel

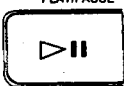




- ① **SPEAKER terminals**
Connect the provided speakers to these terminals.
- ② **Battery compartment cover**
- ③ **Headphones Jack (PHONES) (3.5 mm dia. stereo mini)**
Connect headphones (impedance 16 Ω - 1 k Ω) to this jack. The speakers are automatically switched off when the headphones are connected.
- ④ **AC IN (AC Input) jack**
- ⑤ **Telescopic antenna**

SWITCHING THE POWER ON/OFF



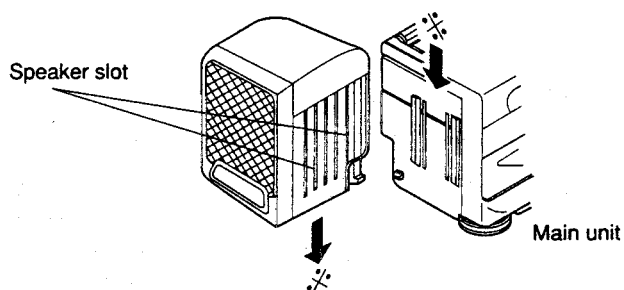
COMPU PLAY (only when AC power is used)
Even when the power is set to **STANDBY**, pressing the button shown below switches on the power and selects the source.

	Function mode	Operations
	CD	When this button is pressed with a CD loaded, CD playback begins.
Deck A or Deck B 	TAPE	When this button is pressed with a CD loaded, CD playback begins.
	TUNER	When this button is pressed, the tuner is engaged.

ATTACHING/DETACHING THE SPEAKERS

When using the speakers attached to the main unit
Hold with the bottom of the speaker against the top of the main unit and press down on the speaker to attach it.

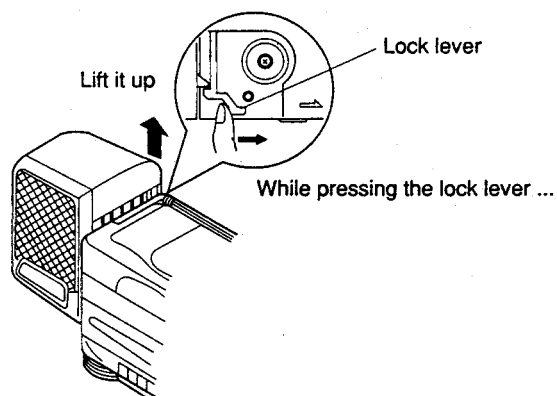
Press the speaker down with the speaker and main unit aligned.



Note:

Since the speakers sound differently according to where they are placed, carefully place them for optimal effect within the length of the provided speaker cords. It is recommended that the left and right speakers be placed symmetrically in relation to the main unit.

When using the speakers detached from the main unit
Lift the speaker up to detach from the main unit by pressing the lock lever at the rear bottom of speaker in the direction of the arrow.

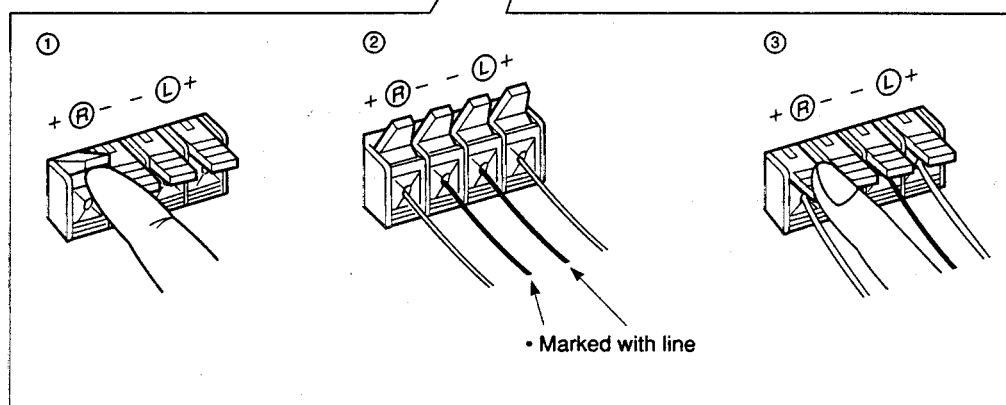
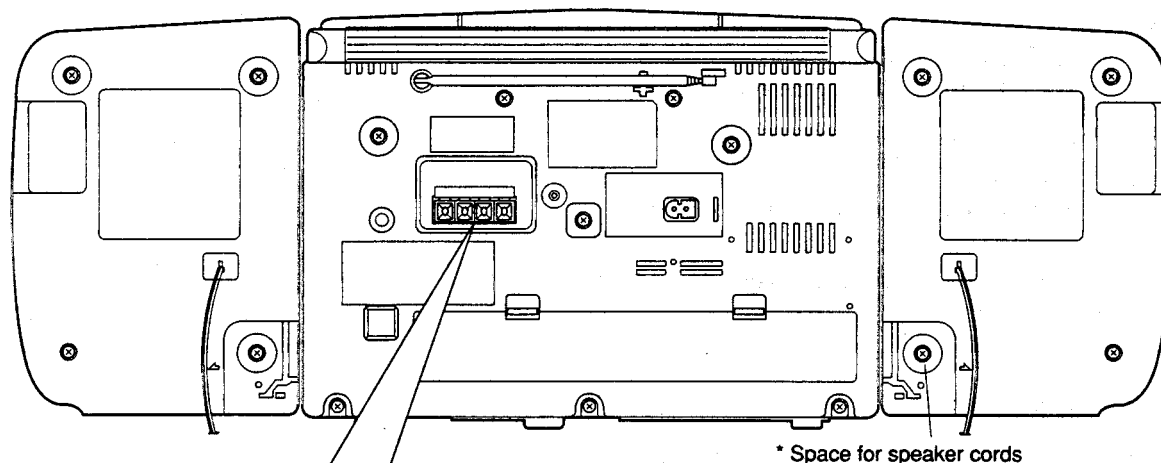


CONNECTIONS

- Do not switch the power on until all the connections are completed.

* After connecting the speaker cords, bundle any slack into the space for the speaker cords in the rear panel.

- When connecting the speaker cords, connect the one marked with a line to the "-" terminal first.

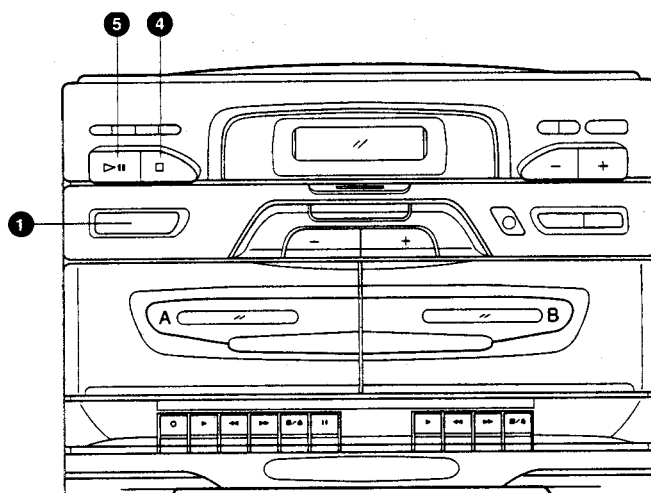
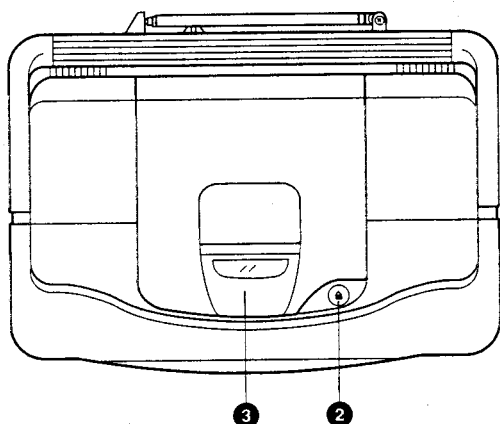


PLAYING COMPACT DISCS



Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

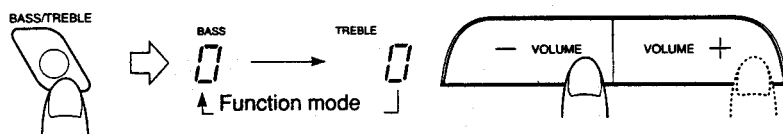
Operate in the order shown



- ① Set the POWER button to on.
 - ② Press to open the Disc holder.
 - ③ Load a disc with the label side facing up and close the Disc holder.
 - ④ Set to the CD mode.
 - If the PLAY button of deck A or B is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode.
 - When a CD is first loaded, the total number of tracks (tunes) and total playing time are displayed.
 - ⑤ Press to start play.
 - As tunes are played, their track numbers go out one by one.
- 8-cm (3-3/16") compact discs can be used in this unit without an adapter.

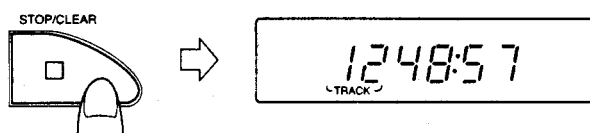
To adjust BASS/TREBLE

Press the BASS/TREBLE button to select BASS or TREBLE to be adjusted. Within about 5 seconds, press the VOLUME button (+/-) to adjust the level within a range of -6 to 6. (Level should be adjusted in BASS or TREBLE.)



To stop play

- **To stop in the middle of a disc**
During playback, press the STOP/CLEAR (□) button to stop play.



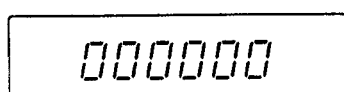
- **To stop a disc temporarily**
Press the PLAY/PAUSE (▷||) button to stop play temporarily. When pressed again, play resumes from the point where it was paused.

Caution:

- To change discs, press the STOP/CLEAR (□) button; check that the disc has stopped rotating completely before unloading it.

Notes:

- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.
In such a case, check the disc and insert again after cleaning the disc or turning it over.



- Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).
- After playback, unload the disc and close the Disc holder.
- If mistracking occurs during play, lower the volume.
- Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

Skip playback

- During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

To listen to the next tune ...

Press the ►► button once to skip to the beginning of the next tune.

To listen to the previous tune ...

Press the ◀◀ button to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.

Search playback (to locate the required position on the disc)

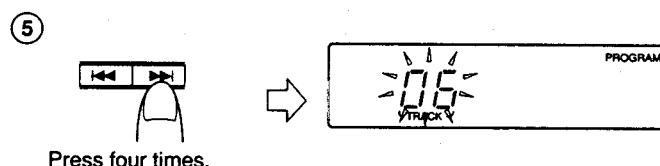
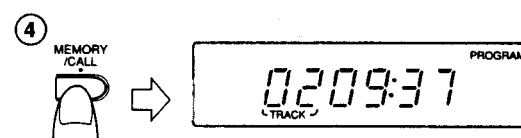
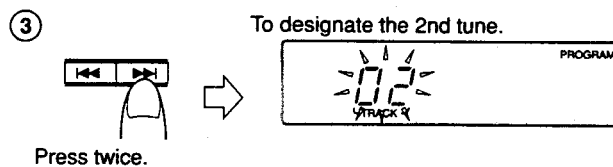
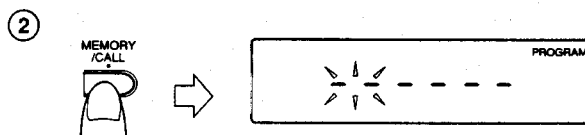
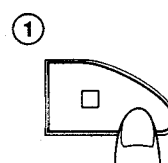
- The required position can be located using fast-forward or reverse search while playing a disc.

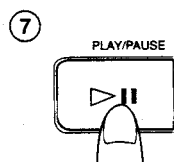
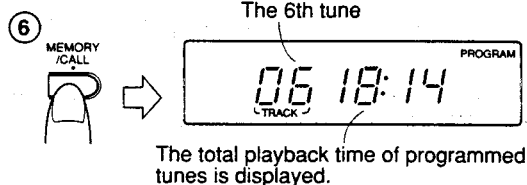


- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Programmed play

- Up to 20 tunes can be programmed to be played in any required order.
The total playing time of programmed tunes is displayed (up to 99 minutes, 59 seconds).
(Example: When programming the 2nd tune to be played first, and the 6th tune next, etc.)





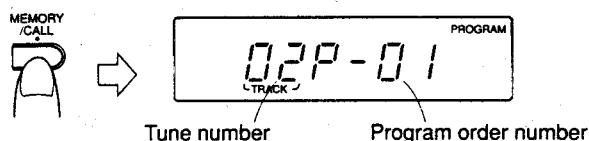
- ① Press the STOP/CLEAR (□) button.
- ② Press the MEMORY/CALL button to set to the programming mode.
- ③ Press to designate the required track number.
- ④ Press the MEMORY/CALL button.
- ⑤ Designate the remaining tunes by pressing the ►► button.
- ⑥ Press the MEMORY/CALL button.
- ⑦ Press the ►► button when programming is completed. Programmed playback starts.

To clear the programmed tunes ...

Press the STOP/CLEAR (□) button before playing a disc. During programmed playback, press this button twice. When the Disc holder is opened, programmed tunes are cleared automatically.

To confirm the details of a program ...

Press the MEMORY/CALL button for more than 2 seconds; the tunes making up the program will be displayed in programmed order.



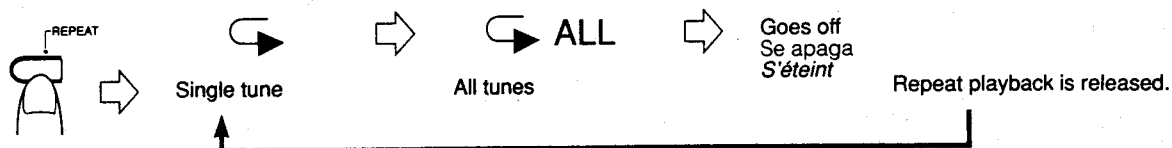
Notes:

1. If the total playing time of the programmed tunes exceeds 99 minutes 59 seconds, the total playing time indication will go out.
2. Programming of track (tune) number 21 or more is impossible.

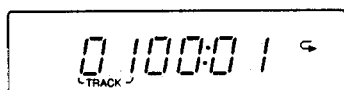
Repeat play

Press the REPEAT button before or during play. A single tune or all the tunes can be repeated.

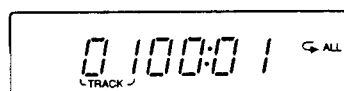
Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single tune (≡), to all the tunes (≡ ALL), to the clear mode, in this order.



- **Repeat playback of a single tune (≡)**
The tune being played back will be heard repeatedly.



- **Repeat playback of all tunes (≡ ALL)**
When playing back an entire disc or programmed tunes, all tunes or the programmed tunes will be heard repeatedly.

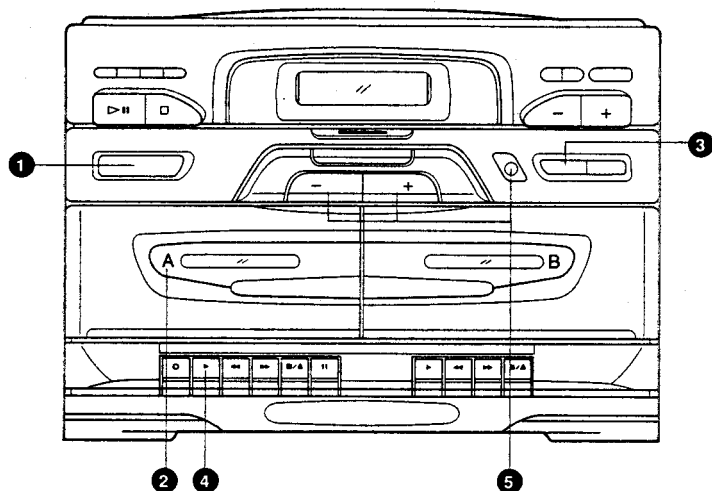


CASSETTE PLAYBACK



(The example shows Deck A)

Operate in the order shown



- ① Set the POWER button to on.
- ② Load a cassette tape in Deck A.
- ③ Set the TAPE switch as required.
- ④ Press to start playback.
- ⑤ Adjust the volume and tone.

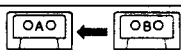
• **Playback in Deck B**

The previous procedures ③ through ④ also apply to Deck B when a cassette is loaded in Deck B. When Decks A and B are simultaneously set to the play mode, only the playback sound of Deck B is heard.

Notes:

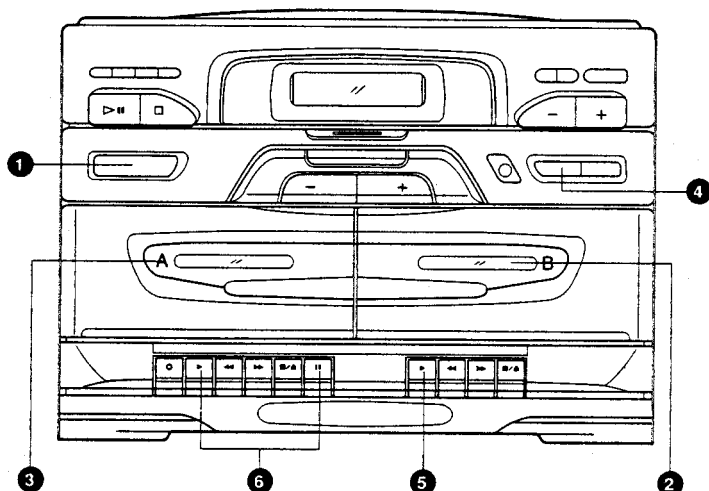
1. When the power is turned off while the tape is still running, cassette operation buttons which are depressed do not return to the original positions. Press the STOP/EJECT (■/▲) button to stop the tape running before turning off (STANDBY) the power.
2. Avoid operating the FF or REW button on the deck during playback of the other deck.

RELAY PLAYBACK



(From Deck B to Deck A)

Operate in the order shown



- ① Set the POWER button to on.
- ② Load a cassette tape in Deck B.
- ③ Load a cassette tape in Deck A.
- ④ Set the TAPE switch as required.
- ⑤ Press the ► PLAY button on Deck B.
- ⑥ Set Deck A to the play-pause mode.

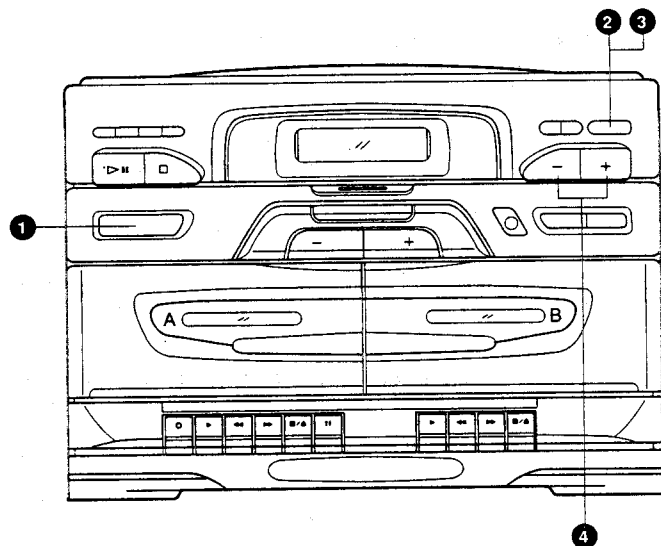
When Deck B stops, Deck A's pause mode will be released and it will start playback. When Deck A stops automatically, relay playback will be released.

Note:

Use the same type of tape in Decks A and B during this mode.

RADIO RECEPTION

Operate in the order shown



- ① Set the POWER button to on.
- ② Press the BAND/FM MODE button; a band and radio frequency will be shown in the display.
 - If the PLAY (▶) button of the deck is pressed, press the STOP/EJECT (■/▲) to set to the stop mode.
- ③ Select the band/FM mode (FM auto, FM MONO or AM).
- ④ Tune to the required station.

FM MODE button

Auto mode:

Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when an FM stereo broadcast is received.

MONO:

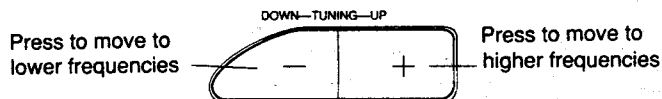
Set to this position when FM stereo reception is noisy. When another station is tuned to in the MONO mode using the TUNING UP/DOWN or PRESET TUNING/AUTO PRESET button, the unit automatically enters Auto mode.

• Seek tuning

Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

• Manual tuning

Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 100 kHz for FM and 10 kHz for AM.



Notes:

- When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and BAND/FM MODE button is pressed, the same station will be heard.

Auto preset tuning

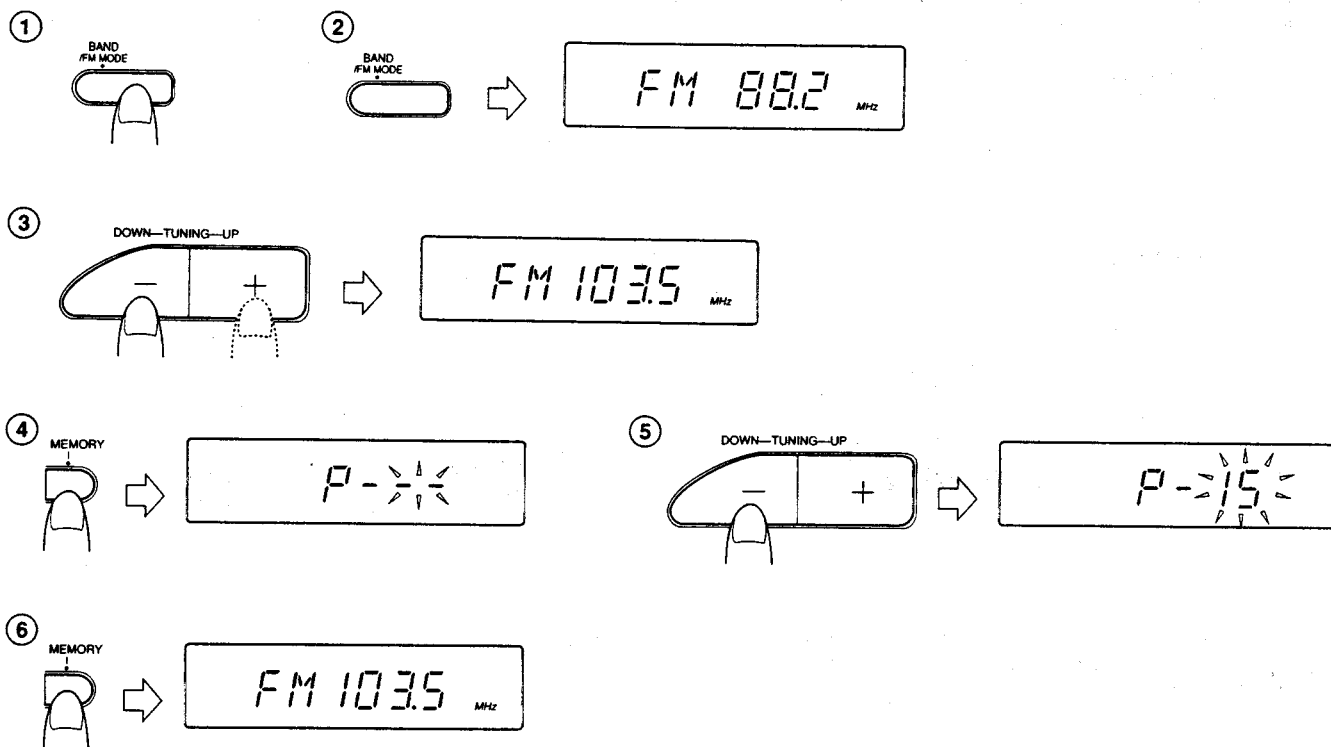
This function scans the current band (FM or AM), detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.

- Press the AUTO PRESET button for more than 2 seconds. The frequencies of stations broadcasting signals can be preset automatically in the order of increasing frequency. (15 stations in each band (FM and AM).)

Presetting stations

15 stations in each band (FM and AM) can be preset as follows:

- Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")



- ① Press the BAND/FM MODE button.
 - ② Select the FM band using the BAND/FM MODE button.
 - ③ Tune to the required station.
 - ④ Press the MEMORY button.
 - ⑤ Set the preset station "15". (When "15" blinks in the preset station display.)
 - ⑥ Press the MEMORY button so that an FM station broadcasting at FM 103.5 MHz will be preset to preset station 15.
- Repeat the above procedure for each of the other stations, using a different preset button each time.
 - Repeat the above procedure for the AM band.

To change preset stations

Perform step ④ above after tuning to the required station.

Notes:

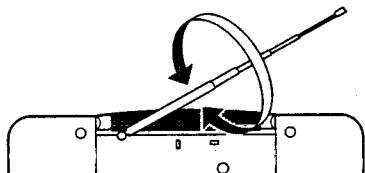
- The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.

Preset tuning

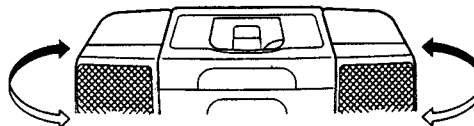
- The stations must be preset before this operation can be performed.
- ① Press the BAND/FM MODE button.
- ② Select the band (FM or AM) using the BAND/FM MODE button.
- ③ Press the PRESET TUNING button to select the required preset station (P-1–P-15).
- The preset station number and frequency are shown in the display in sequence each time the PRESET TUNING button is pressed.

Using the antennas

FM



AM



Note:

The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb AM reception.

RECORDING

- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

Notes:

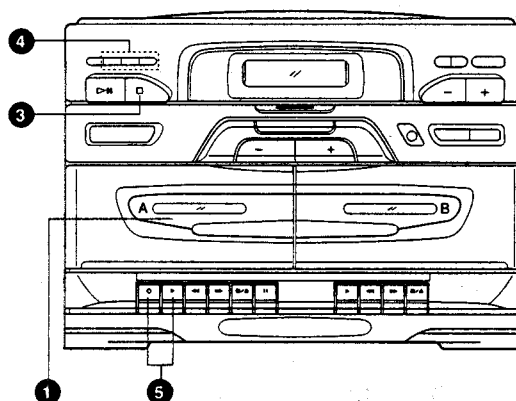
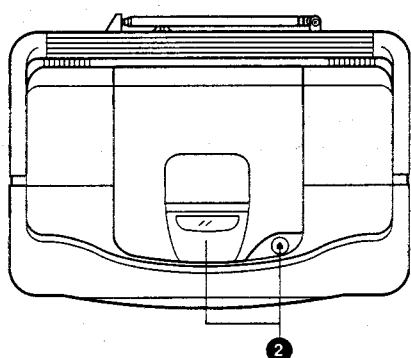
1. The recording characteristics of this unit are those of normal tape. Normal tape has different characteristics from CrO₂ and metal tapes.
2. Do not operate any button on deck B during recording.

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

Synchronized recording with the CD player

- In this system, the CD player starts playback when Deck A enters the recording mode.

Operate in the order shown



- ① Load a cassette tape in deck A.
- ② Load a disc and close the Disc holder.
- ③ Set the CD mode.
 - When the ► PLAY button of deck is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode and perform this operation.
- ④ When programmed playback is required, program the required tunes. (See page 21.)
 - Select tunes with a total playing time which does not exceed the tape length.
- ⑤ Press the ○ REC button with the ► PLAY button; synchronized recording will start.

- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- When the tape reaches the end first, the CD player stops automatically; when the CD player stops first, the tape continues running. In this case, press the ■/▲ STOP/EJECT button to stop the tape.

• **When automatic spacing between tunes is not required ...**

Perform the following after finishing the previous operation (① to ④).

- ① Press the ►|| PLAY/PAUSE button of the CD player twice. The CD player enters the pause mode.
- ② Press the ○ REC and ► PLAY buttons simultaneously. Now, the CD player starts playback simultaneously.

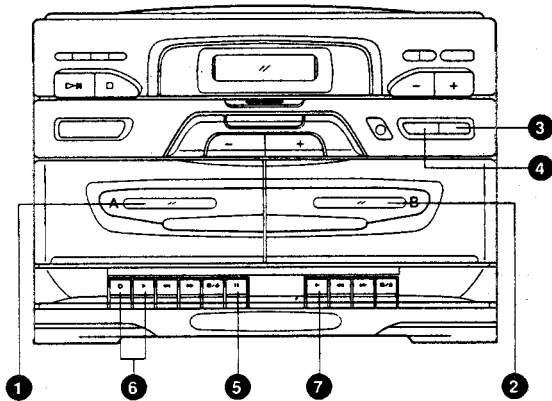
Note:

To record a compact disc, be sure to check that the track (tune) number and playing time are displayed on the display window before pressing the ○ REC button and ► PLAY button.

DUBBING (SYNCHRO START DUBBING)

Normal and high-speed dubbing can be done from Deck B to Deck A.

Operate in the order shown



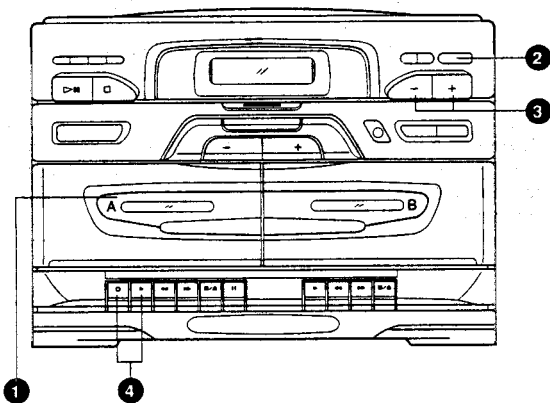
- ① Load a cassette tape in deck A. (Refer to the note on page 31.)
- ② Load a pre-recorded cassette tape in deck B.
 - Slightly press the ► PLAY button to set to TAPE mode. (The button should not be locked.)
- ③ Set to NORMAL SPEED or HIGH SPEED.
- ④ Set to correspond to the type of tape in Deck B.
- ⑤ Press the || PAUSE button.
- ⑥ Press the ○ REC button with the ► PLAY button. (Record-pause mode.)
- ⑦ Press the ► PLAY button. (Synchronized dubbing will start.)

Notes:

1. Television receivers placed close to this unit may cause interference on the recorded signal when this unit is used in the high-speed dubbing mode. If this happens, either turn off the television receiver or use the normal-speed dubbing mode.
2. With Deck A in the record-pause mode, the || PAUSE button is released when Deck B enters the stop mode.

Recording from the radio

Operate in the order shown



- ① Load a cassette. (Deck A)
 - ② Press the BAND/FM MODE button.
 - ③ Tune to the required station.
 - ④ Press the ○ REC button with the ► PLAY button.
- To stop recording temporarily, press the || PAUSE button. To resume recording, press the || PAUSE button again.

Erasing

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.

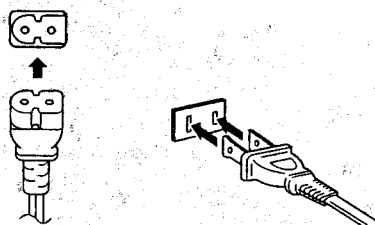
To erase a tape without making a new recording ...

Slightly press the ► PLAY button of the deck to set to the TAPE mode and press the ○ REC and ► PLAY buttons together after pressing the ■/▲ STOP/EJECT button.

POWER SUPPLY

A. Operation on household AC

- Connect the AC power cord



- The provided AC power cord for this unit has certain one-way direction connections to prevent electric shock. Refer to the illustration above for correct connection.

CAUTIONS:

1. ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT. REMOVE BATTERIES WHEN USING THE POWER CORD.
2. BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

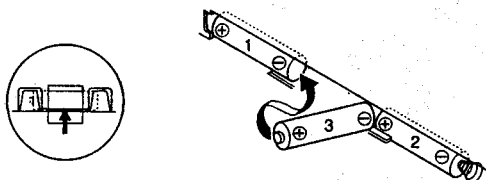
B. Batteries for memory back-up system

Batteries for preset station memory

It is recommended that batteries are loaded to prevent the preset station memory from being erased when there is a power failure, or when the AC power cord is disconnected.

• Loading batteries

Load three "AA" size batteries (optional) into the battery compartment.



- When removing the batteries, push from the bottom as shown by the arrow.

Notes:

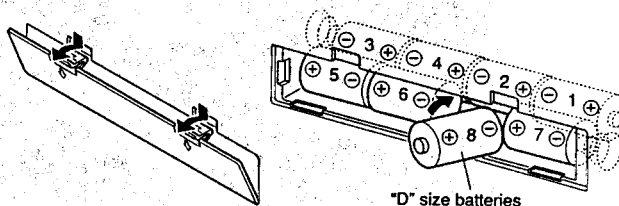
- The three "AA" size batteries supply the power to the memory back-up system which prevents the contents of memory being lost when there is a power failure, or the AC power cord is disconnected. Battery power is not consumed when the AC power cord is connected to the household AC outlet.

- When the AC power cord is not connected, the batteries should be replaced with new ones approximately every three months.

C. Operation on batteries

• Loading batteries

1. Open the battery cover by pulling it toward you while pressing the sections marked by the arrows.
2. Insert eight "D" size batteries as shown in the diagram.
* Be careful to insert the batteries with the ⊕ and ⊖ terminals positioned correctly.
3. Replace the cover.



Checking batteries

When the tape speed or output sound decreases, or CD playback is intermittent, replace all batteries with fresh ones. When making an important recording, use new batteries (preferably alkaline batteries with a longer service life) to avoid any possible failure.

• For better battery usage

Continuous operation of the unit causes the battery power to be consumed quicker than noncontinuous operation. Operation of the unit in a cold place causes the battery power to be consumed more quickly than in a warm place.

CAUTIONS:

- WHEN NOT USING THE UNIT FOR A LONG TIME (MORE THAN TWO WEEKS) OR WHEN ALWAYS USING HOUSEHOLD AC, REMOVE THE BATTERIES TO AVOID A MALFUNCTION OR DAMAGE TO THE UNIT.
- WHEN THE JVC POWER CORD PROVIDED WITH THIS UNIT IS CONNECTED, THE POWER IS AUTOMATICALLY SWITCHED FROM THE BATTERIES TO THE HOUSEHOLD AC EVEN WHEN THE BATTERIES ARE LOADED. HOWEVER, REMOVE THE BATTERIES WHEN USING THE POWER CORD.

CAUTIONS WHEN USING BATTERIES:

When batteries are used incorrectly, it may result in the leakage of chemicals from the batteries or they may explode. The following care should be taken;

- Check that the positive ⊕ and negative ⊖ terminals of the batteries are positioned correctly and load them as shown in the diagram.
- Do not mix new and old batteries together, or mix different types of batteries.
- Do not try to recharge non-rechargeable batteries.
- Remove the batteries when the unit is not to be used for an extended period of time.

If chemicals from the batteries come in contact with your skin, wash them off immediately with water. If chemicals leak onto the unit, clean the unit completely.

6. Location of Main Parts

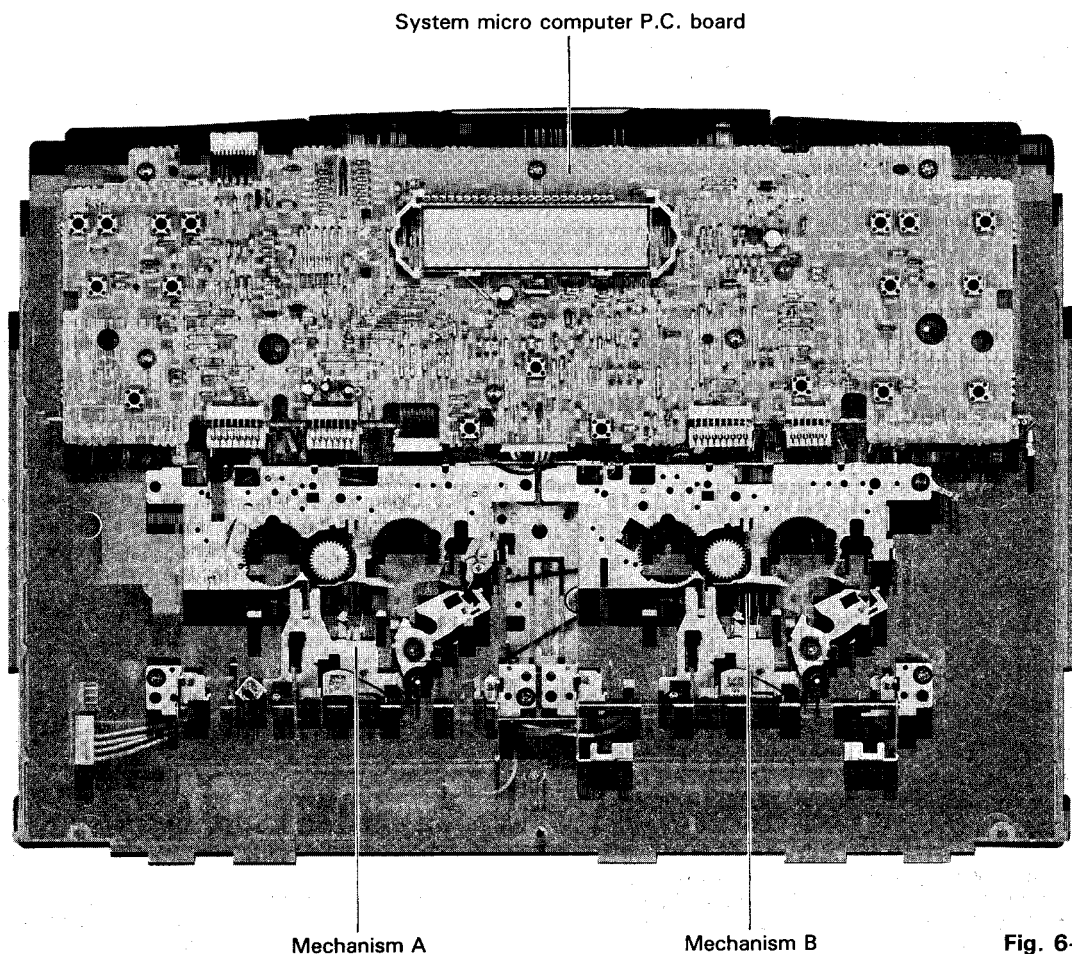


Fig. 6-1

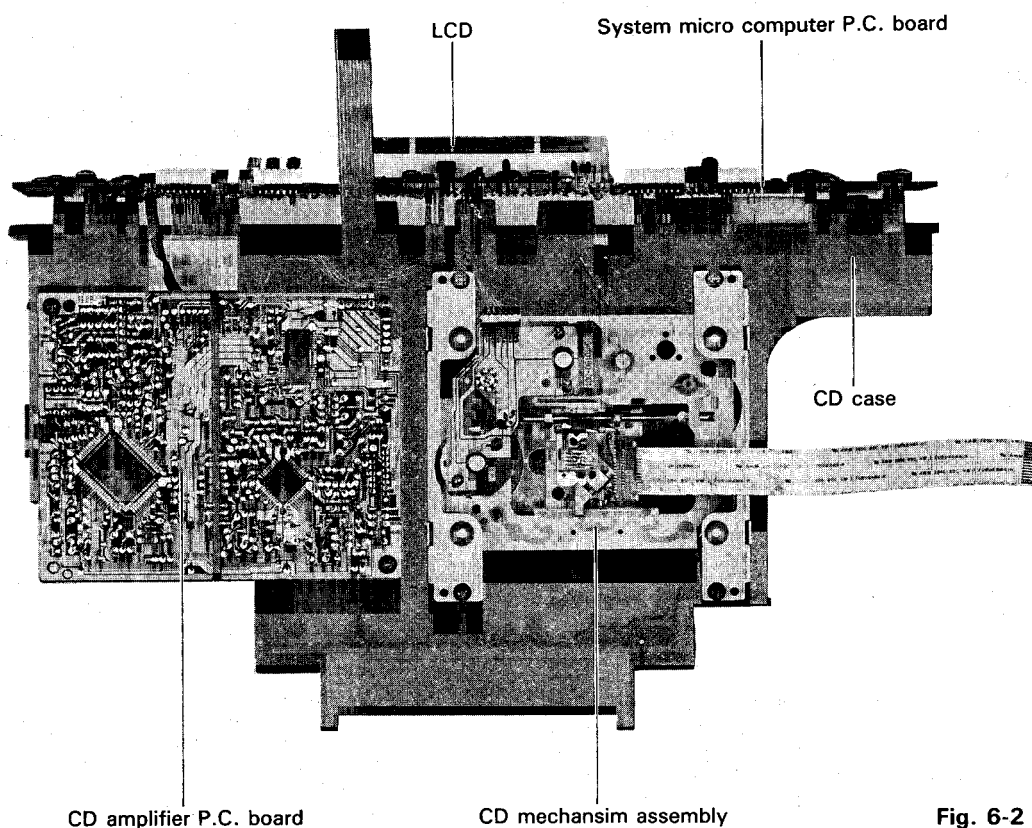


Fig. 6-2

7. Removal of Main Parts

■ Front Cabinet Assembly (refer to Fig. 7-1, 7-2)

1. Remove the six screws ① retaining the rear cabinet assembly of the body.
2. Remove the two screws ② retaining both sides of the front cabinet assembly.
3. Press the STOP/EJECT buttons on both decks A and B and open the cassette door.
4. Turn the front cabinet upward and dismount the front cabinet assembly from the body.

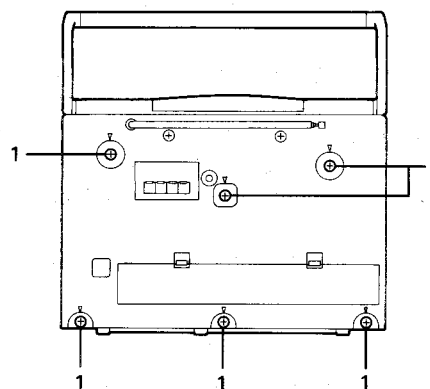


Fig. 7-1

■ CD Player Assembly (refer to Fig. 7-3, 7-4)

1. Turn the body backward and remove the two screws ③ retaining the CD player assembly.
2. After putting the hand onto the right and left back sidea (A), (B) of the CD case retaining the system microcomputer P.C. board, draw out and dismount the case to the front side.

(Then, the connector CN303, CN304, CN305 and CN306 on the main P.C. board, and the connectors CN801, CN802, CN803 and CN804 on the system microcomputer P.C. board will be disconnected).

3. From the connector CN302 on the main amplifier P.C. board, disconnect the 5 PIN parallel wire outgoing from the connector FW501 on the CD amplifier P.C. board.

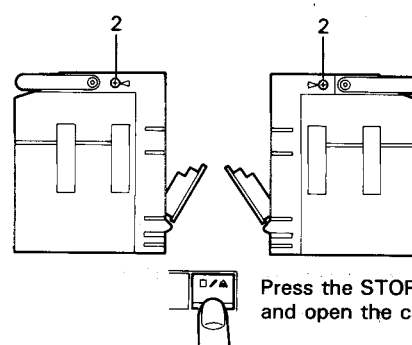


Fig. 7-2

■ System Micro Computer P.C. Board (refer to Fig. 7-4)

1. Remove the six screws ④ retaining the system micro computer P.C. board from the CD player assembly.
2. From the connector CN805 on the system micro computer P.C. board, disconnect the parallel wire outgoing from the connector CN601 on the CD amplifier P.C. board.
3. From the connector CN806 on the system micro-computer P.C. board, disconnect the # 2 PIN parallel wire outgoing from the CD door close switch P.C. board.

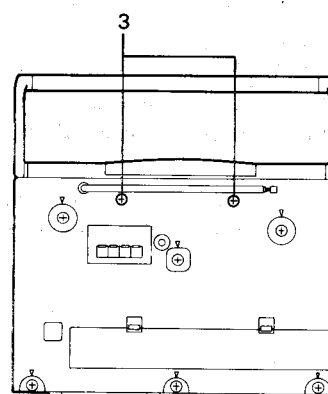


Fig. 7-3

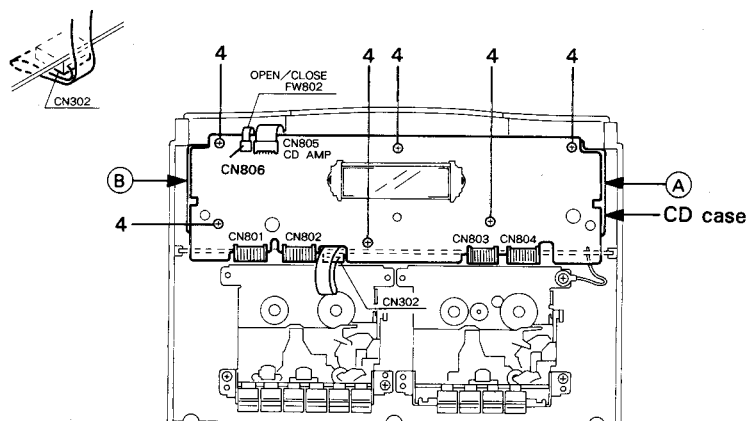


Fig. 7-4

■ CD Amplifier P.C. Board (refer to Fig. 7-5)

1. Remove the three screws (5) retaining the CD amplifier P.C. board from the CD player chassis.
2. From the connector P011 on the CD mechanism P.C. board, disconnect the 6 PIN connector outgoing from connector CN501 on the CD amplifier P.C. board.
3. From the connector CN501 on the CD amplifier P.C. board, remove the parallel wire outgoing from the CD pickup P.C. board.
4. Remove the screw (7) retaining the CD door close switch P.C. board.

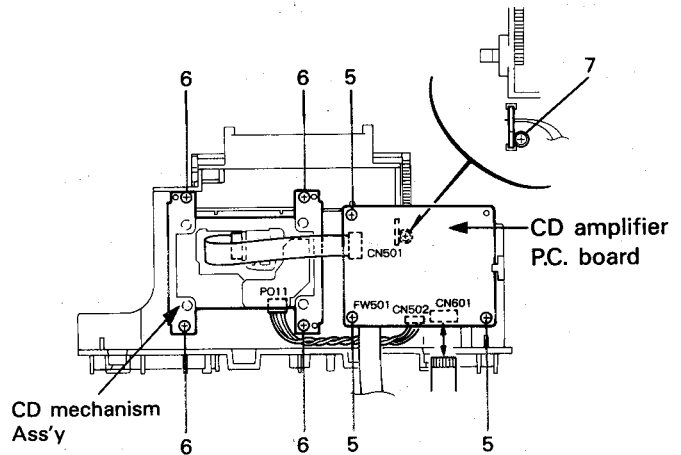


Fig. 7-5

■ CD Mechanism Assembly (refer to Fig. 7-5)

Remove the four screws (6) retaining the CD mechanism assembly.

■ Cassette Mechanism Assembly (refer to Fig. 7-6)

1. Remove the four screws (8) retaining the cassette mechanism assembly.
2. From the connector CNA31 on the main P.C. board, disconnect the 3 PIN connector outgoing from the play head of the cassette mechanism B.
3. From the connector CNA32 on the main amplifier P.C. board, disconnect the 2 PIN and 5 PIN connectors outgoing from the Record/Play head of the cassette mechanism A.
4. From the connector CNA36 on the main amplifier P.C. board, disconnect the 4 PIN parallel wire outgoing from the drive motor.

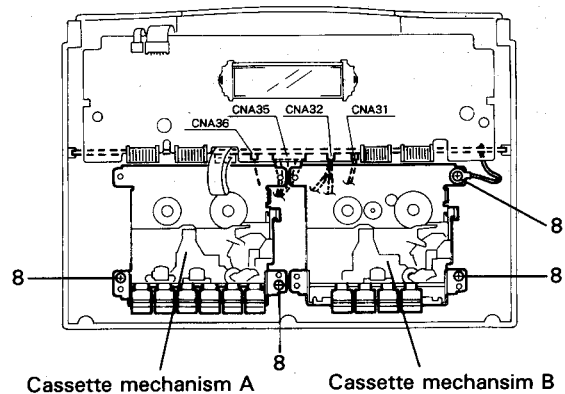


Fig. 7-6

■ Main Amplifier P.C. Board (refer to Fig. 7-7 ~ 7-10)

1. Remove the four screws (9), (10) retaining the main amplifier P.C. board.
2. From the test point TP1 on the main amplifier P.C. board, pull out the antenna wire outgoing from the rod antenna.

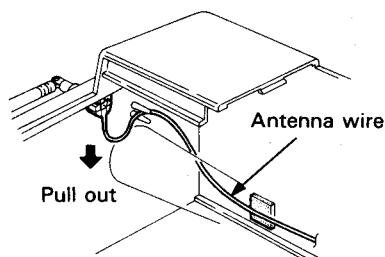


Fig. 7-8

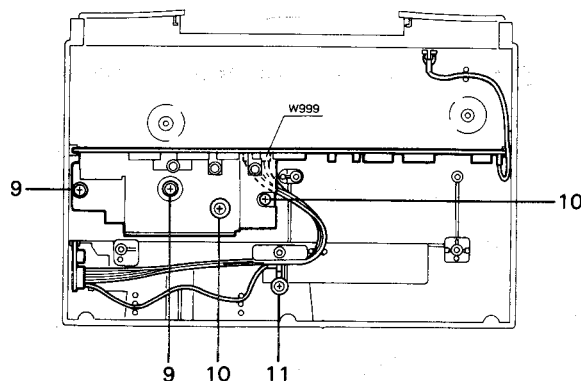


Fig. 7-7

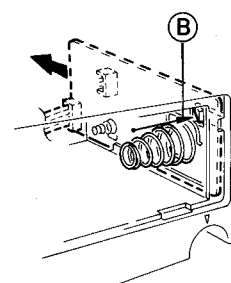


Fig. 7-10

3. Remove the screw (11) retaining the [+] battery contact P.C. board.
4. After turning back the body, dismount the battery cover. Next, remove the claw B retaining the [-] battery contact P.C. board, and draw it out to the front side (refer to Fig. 7-10).
5. Draw out the [-] and [+] battery contact P.C. boards together at the same time.

■ Heat Sink (refer to Fig. 7-11)

1. Remove the three screws (12) retaining the IC101 and Q902, Q921 from the heat sink.
2. Remove the heat sink from the main P.C. board.

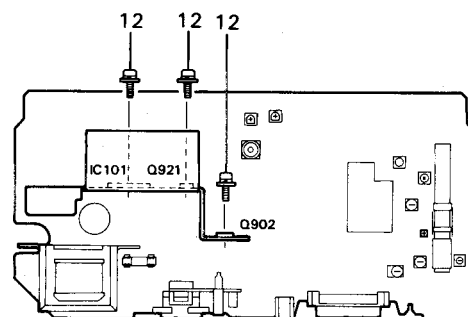
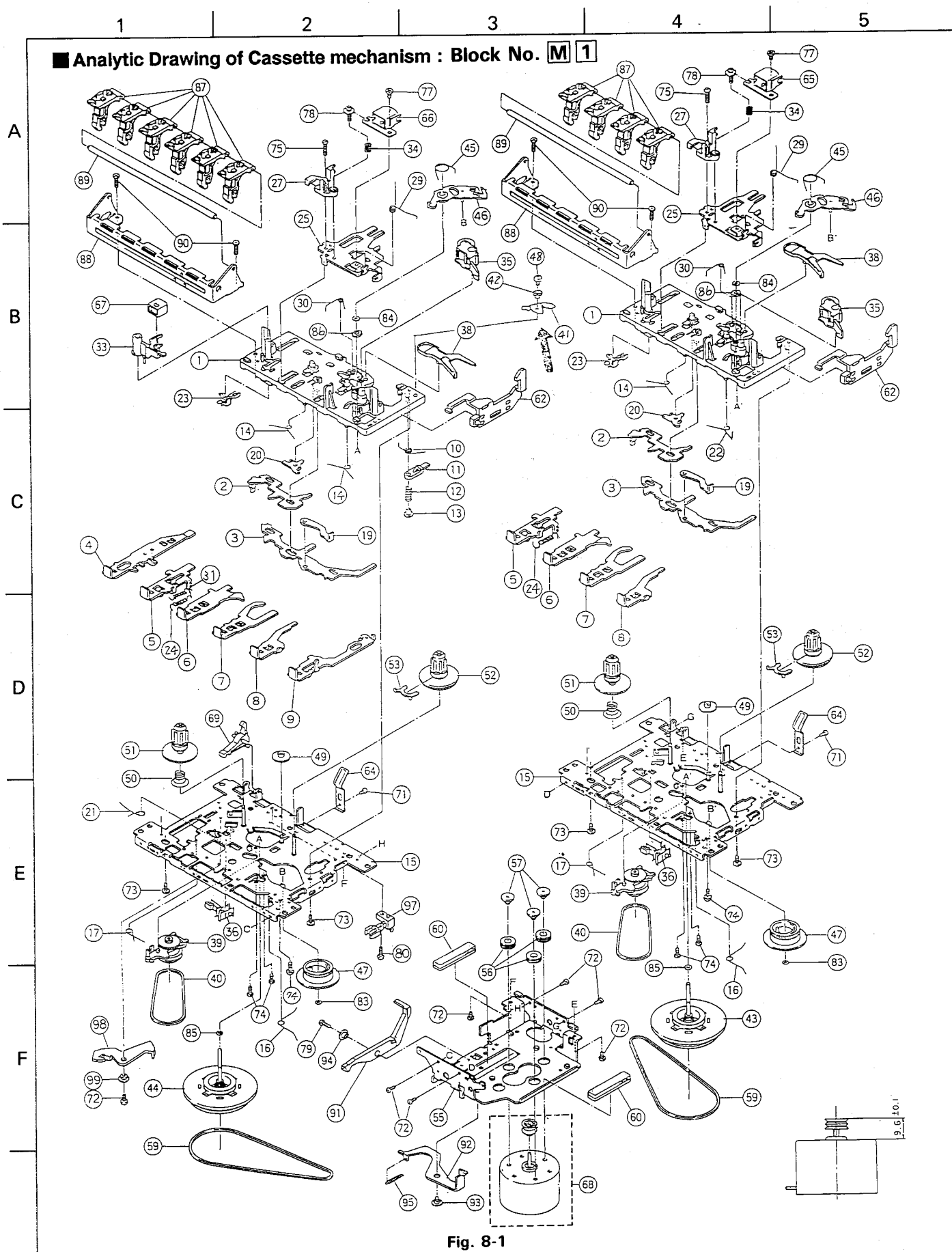


Fig. 7-11

8. Analytic Drawing and Parts List



■ Cassette Mechanism Parts List

BLOCK NO. M1MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	192114301ZT	BASE ASS'Y		2		
	2	19211409T	SWITCH ACTUATOR		2		
	3	19211408T	LOCK CAM		2		
	4	19211422T	BUTTON LEVER	REC DECK A	1		
	5	19211484T	BUTTON LEVER	PLAY	2		
	6	19211424T	BUTTON LEVER	REW	2		
	7	19211425T	BUTTON LEVER	FF	2		
	8	19211426T	BUTTON LEVER	STOP	2		
	9	19211461T	BUTTON LEVER	PAUSE DECK A	1		
	10	19211413T	TORSION SPRING		1		
	11	19211455T	PAUSE LEVER (E)		1		
	12	19211412T	SPRING	PAUSE	1		
	13	19211411T	PAUSE STOPPER		1		
	14	19211414T	TORSION SPRING	BUTTON LEVER	3		
	15	192101501ZT	CHASSIS ASS'Y		2		
	16	19211416T	TORSION SPRING	E.ACTUATOR	2		
	17	19211417T	TORSION SPRING	PS. LEVER	2		
	19	182101159T	E.KICK LEVER		2		
	20	19211420T	STOPPER	PINCHROLLER	1		
	21	19211421T	TORSION SPRING	REC BUTTON	1		
	22	19211433T	TORSION SPRING	SPRING C	1		
	23	MSW-1541T	LEAF SWITCH		2		
	24	18210150T	PLAY BUTTON LEV	PLAY BUTTON	2		
	25	19210311T	HEAD PANEL		2		
	27	19210304AT	HEAD BASE		2		
	29	19210309T	PANEL P SPRING		2		
	30	19211418AT	SPRING	M.CONTROL	2		
	31	18211311T	TENSION SPRING	E.SLIDE LEVER	1		
	33	19210305T	MAGNET HEAD ARM		1		
	34	18210307T	AZIMUTH SPRING		2		
	35	192104309T	P.ROLL. ARM ASY		2		
	36	640101161T	LEAF SWITCH	MSW-17820MVDO	2		
	38	19212604TT	SENSING LEVER		2		
	39	192107304T	RF CLUCH ASS'Y		2		
	40	18210711T	RF.BELT		2		
	41	19211434T	P.ROLLER ARM		1		
	42	19211437T	P ARM COLLAR		1		
	43	192109304ZT	FLYWHEEL ASS'Y		1		
	44	192109303ZT	FLYWHEEL ASS'Y		1		
	45	19212605T	TORSION SPRING		2		
	46	192126502ZT	GEAR PLATE ASSY		2		
	47	19212602T	CAM GEAR		2		
	48	99992041T	SPECIAL SCREW	M2X3	1		
	49	18211070T	F.FORWARD GEAR		2		
	50	18211099T	BACK TENSION SP		2		
	51	192105304T	S. REEL ASS'Y		2		
	52	192105303T	T. REEL ASS'Y		2		
	53	19210506T	SENSOR		2		
	55	19211211T	MOTOR BRACKET		1		
	56	18211266T	MOTOR RUBBER		3		
	57	18511418T	COLLAR SCREW	FOR MOTOR	3		
	59	19210923T	MAIN BELT		2		
	60	19211212T	MAT		2		
	62	19211302T	EJ. SLIDE LEVER		2		

BLOCK NO.

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	64	18291001T	PACK SPRING		2		
	65	MS15R-AA2N1	R/P HEAD		1		
	66	MS15R-AA2N1	R/P HEAD		1		
	67	PHK-MSI-6A	ERASE HEAD		1		
	68	1921123065T	MOTOR ASS'Y	WITH PULLY	1		
	69	18211069T	REC.SAF.LEVER		1		
	71	91790000T	TAPPING SCREW	M2X3	2		
	72	91800000T	SCREW	M2X4	7		
	73	96790000T	TAPPING SCREW	M2X5	4		
	74	99991809T	SPECIAL SCREW	M2X4.5	6		
	75	SPSP2006Z	SCREW	M2X6	2		
	77	SDSP2003Z	SCREW	M2X3	2		
	78	SPSP2007Z	SCREW	M2X7	2		
	79	91820000T	SCREW	M2X6	1		
	80	91810000T	SCREW	M2X5	1		
	83	94220000T	P.WASHER	1.2X3.8X0.3	2		
	84	99990313T	POLY.CUT WASHER	1.45X3.8X0.5	2		
	85	98820000T	POLY.WASHER	2X3.5X0.4	2		
	86	99370000T	POLYSLIDER WAS.	2.1X4X0.13	2		
	87	18213107T	OPERATION LEVER		10		
	88	18213106T	BUTTON FRAME		2		
	89	18293103T	LEVER SHAFT		2		
	90	99991402T	MINI SCREW	M2X8	4		
	91	19211209T	P.KICK LEVER(B)		1		
	93	18211224T	COLLAR SCREW		1		
	94	18211265T	COLLAR (B)		1		
	95	18211312T	SPRING		1		
	97	64010138T	LEAF SWITCH		1		
	98	19210201T	REC ARM		1		
	99	19211437T	P ARM COLLAR		1		

■ Enclosure Assembly Section: Block No. **M 2**

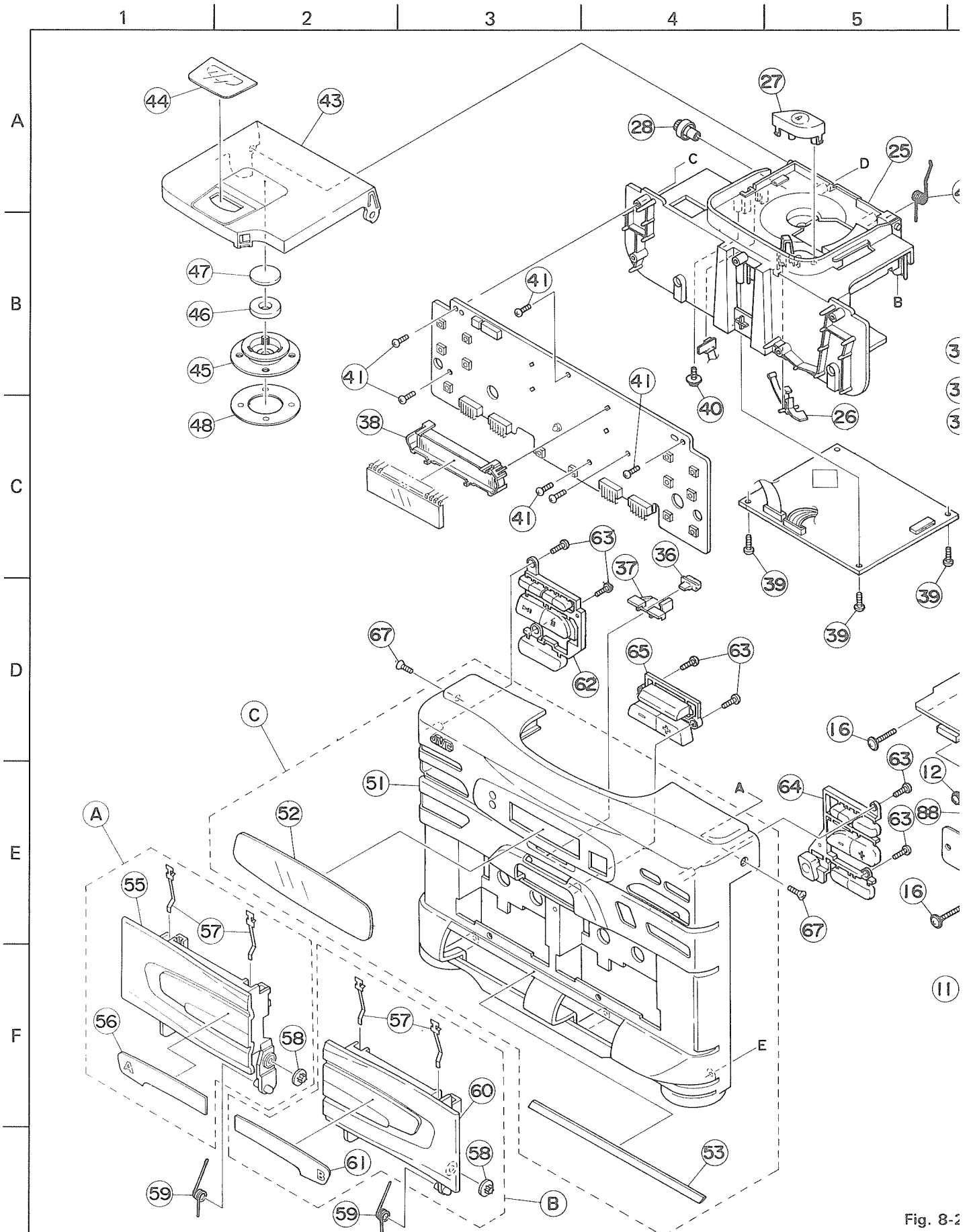


Fig. 8-2

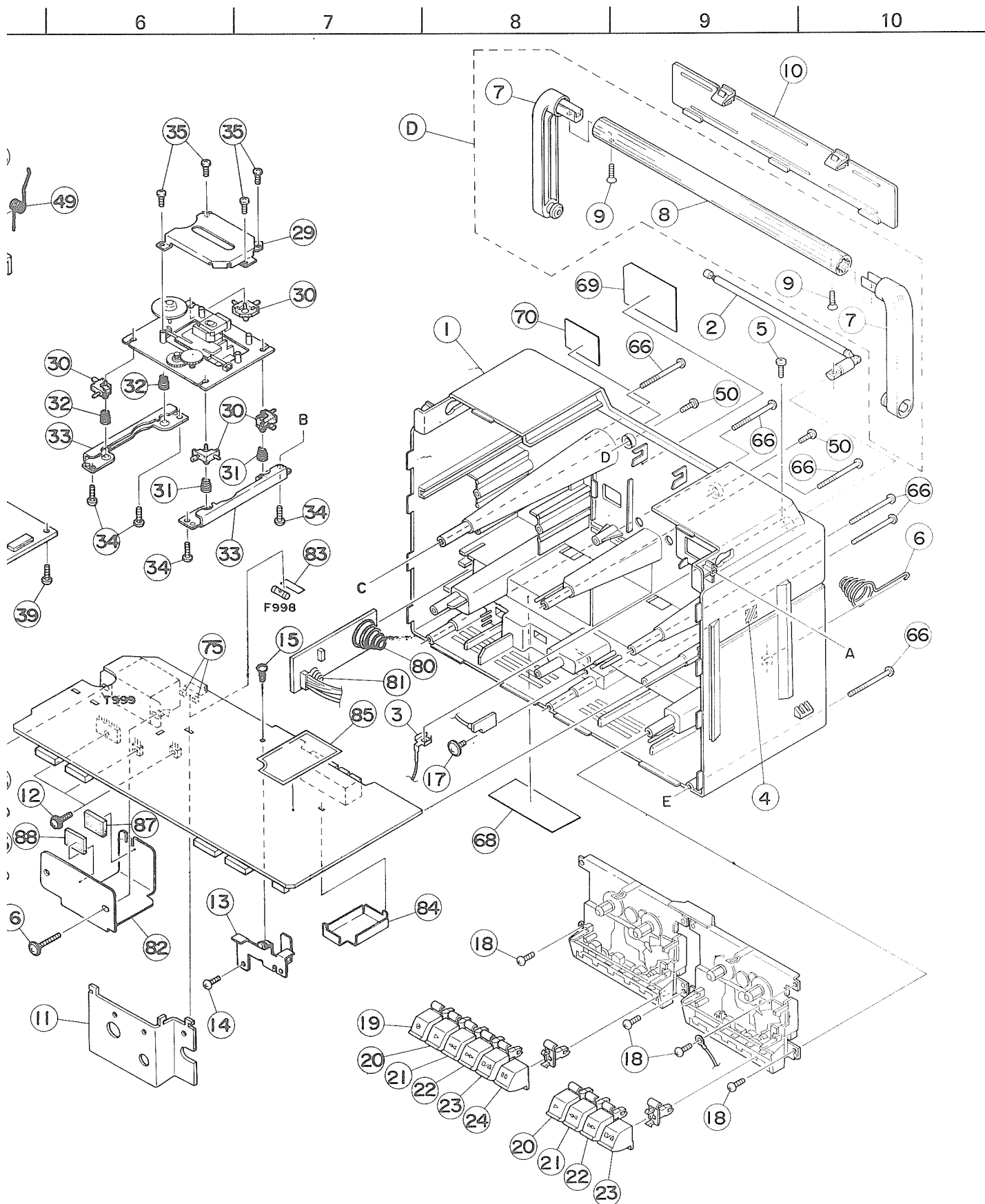


Fig. 8-2

■ Enclosure Assembly Parts List

BLOCK NO. M2MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCPRX105K-CBA	CASSTTE CASE	REF.55-57	1		
	B	ZCPRX105K-CBB	CASSETTE CASE	REF.57,60,61	1		
	C	ZCPRX105J-FB	FRONT CABINET	REF.51-53	1		
	D	PCX130K-HANDLE	HANDLE	REF.7,8	1		
	1	FSJC1003-006UL	REAR CABINET		1	C	
		FSJC1003-005UL	REAR CABINET		1	J	
	2	FMJA3001-00A(D)	ROD ANT ASSY		1		
	3	VYH5012-005SS	TERMINAL LUG		1		
	4	VYSH101-009	SPACER		1		
	5	SDSP3012N	SCREW	ROD ANT+REAR	1		
	6	VYH5657-001	BATTERY SPRING	SPO2	1		
	7	VJH3061-002	HANDLE HOLDER		2		
	8	VJH4093-117SS	HANDLE PIPE		1		
	9	SHSF3012N	SCREW	HANDLE PIPE	2		
	10	VJC2016-023SS	BATT COVER		1		
	11	FMYH3001-001	HEAT SINK		1		
	12	DPSP3010Z	SCREW	P.TRANSISTOR	3		
	13	FSKL4003-002	AC BRACKET		1		
	14	SBSF3012Z	TAP.SCREW	AC BKT+REAR CAB	1		
	15	SBST3006Z	TAP.SCREW	AC BKT + AMP PW	1		
	16	GBSF4020Z	SCREW	P.TRANS+REAR CA	2		
	17	GBSF3008Z	TAP.SCREW	FOR BATTERY PWB	1		
	18	SBSF3012Z	TAP.SCREW	MECHA+REAR CABI	4		
	19	VXP3348-201	BUTTON	A/REC	1		
	20	VXP3348-203	BUTTON	A,B/PLAY	2		
	21	VXP3348-204	BUTTON	A,B/REW	2		
	22	VXP3348-205	BUTTON	A,B/FF	2		
	23	VXP3348-206	BUTTON	A,B/STOP	2		
	24	VXP3348-207	BUTTON	A/PAUSE	1		
	25	FSJD1002-001	CD CASE		1		
	26	VKS5416-001	LOCK ARM		1		
	27	VXP5160-003	CD EJECT BUTTON		1		
	28	VYH4769-002	GEAR		1		
	29	VJD5410-204	PICK COVER	FOR CD MECHA	1		
	30	VYH6596-201	CD CUSHION	FOR CD MECHA	4		
	31	VKW4693-101	CONICAL SPRING	FOR CD MECHA	2		
	32	VKW4693-102	CONICAL SPRING	FOR CD MECHA	2		
	33	VKL7209-002	CD MECHA HOLDER		2		
	34	SBSF3012Z	TAP.SCREW	CD ASS'Y	4		
	35	SDSF2006M	SCREW	CD MECHA	4		
	36	VJD5443-002	LED LENS		1		
	37	VKS5472-002	LENS HOLDER		1		
	38	FSYH4006-001	LCD HOLDER		1		
	39	SBSF3012Z	TAP.SCREW	CD AMP PWB +CD	3		
	40	GBSF3010Z	TAP.SCREW		1		
	41	SBSF3012Z	TAP.SCREW	CONT.PWB+CD CAS	6		
	43	FSJT1001-002	CD DOOR		1		
	44	FSJD4003-004	CD LENS		1		
	45	VYH3644-201	CLAMPER	FOR CD DOOR	1		
	46	E74897-002	C.D. MAGNET	FOR CD DOOR	1		
	47	VYH7314-001	YOKE	FOR CD DOOR	1		
	48	VYH7315-004	PAD	FOR CD DOOR	1		
	49	VKW5034-001	CD DOOR SPRING		1		
	50	SBSF3014Z	SCREW	CD CASE+REAR CA	2		
	51	FSJC1005-006UL	FRONT CABINET		1		

BLOCK NO. M2MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
52	FSJD3001-007	LCD LENS		1		
53	FSJD3002-003	CONTROL PLATE		1		
55	FSJT2002-007	CASSETTE DOOR(A		1		
56	FSJT3001-007	CASSETTE LENS		1		
57	VKY4180-001	CASSETTE SPRING		2		
	VKY4180-001	CASSETTE SPRING		2		
58	VYH5601-001	GEAR		1		
	VYH5601-001	GEAR		1		
59	FSKW4001-001	DOOR SPRING		1		
	FSKW4001-001	DOOR SPRING		1		
60	FSJT2002-004	CASSETTE DOOR(B		1		
61	FSJT3001-008	CASSETTE LENS	B SIDE L	1		
62	FMXP3001-001	CD BUTTON		1		
63	SBSF2608Z	TAP.SCREW		2		
	SBSF2608Z	TAP.SCREW	FOR VOLUME KNOB	2		
	SBSF2608Z	TAP.SCREW	FOR TUNER BUTTO	2		
64	FMXP3002-001	TUNER BUTTON		1		
65	FSXP3003-105	VOLUME KNOB		1		
66	SBSF3050Z	SCREW	F.CABINET+R.CAB	6		
67	SSSF3010M	T SCREW	F.CABINET+R.CAB	2		
68	VND5001-007	HHS LABEL		1	J	
	T44362-001	CSA LABEL		1	C	
69	FMYN7002-004T	NAME PLATE		1	C	
	FMYN7002-006T	NAME PLATE		1	J	
70	VND5008-001	FCC LABEL(4)		1	J	
75	VMZ0125-001Z	FUSE CLIP	FOR F996	2	C	
	VMZ0125-001Z	FUSE CLIP	SECONDARY F998	2		
80	VYH5483-001	SPRING	SP01	1		
81	VYH6889-002	BATT SPRING	SP03	1		
82	FSYH4017-002	SHIELD		1		
84	VMA4482-002SS	SHIELD CASE		1		
85	VMA4572-002	SHIELD		1		
87	FSSH4001-003	SPACER		1		
88	FSSH4001-002	SPACER		1		
CN991	TTL25V-003	CONNECTOR		1		
F 996	QMF0007-5R0J1	FUSE	BATTERY PCB	1	C	
F 998	QMF0007-5R0J1	FUSE		1		
T 999	FMTP57A2-12A	POWER TRANS		1		

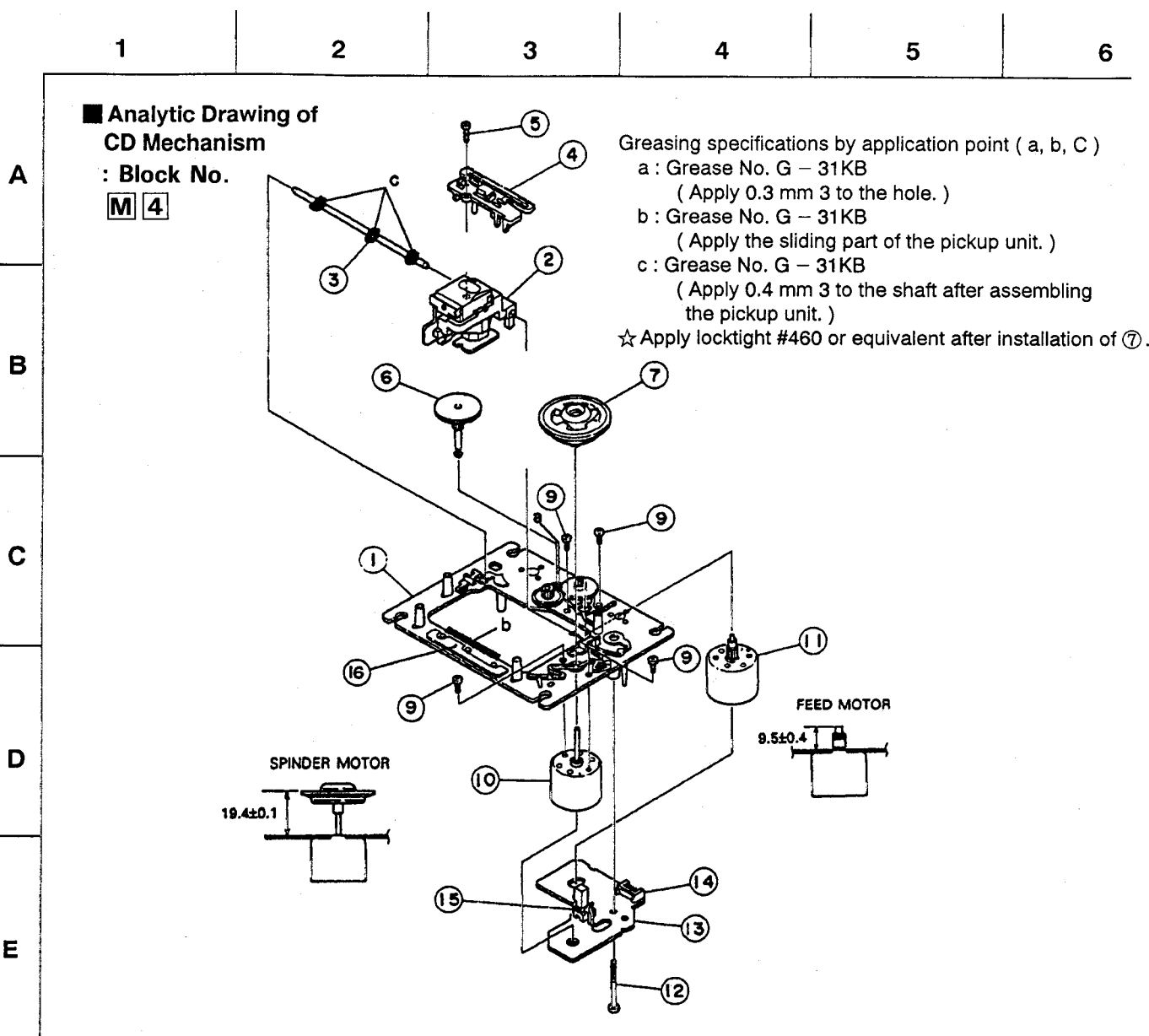


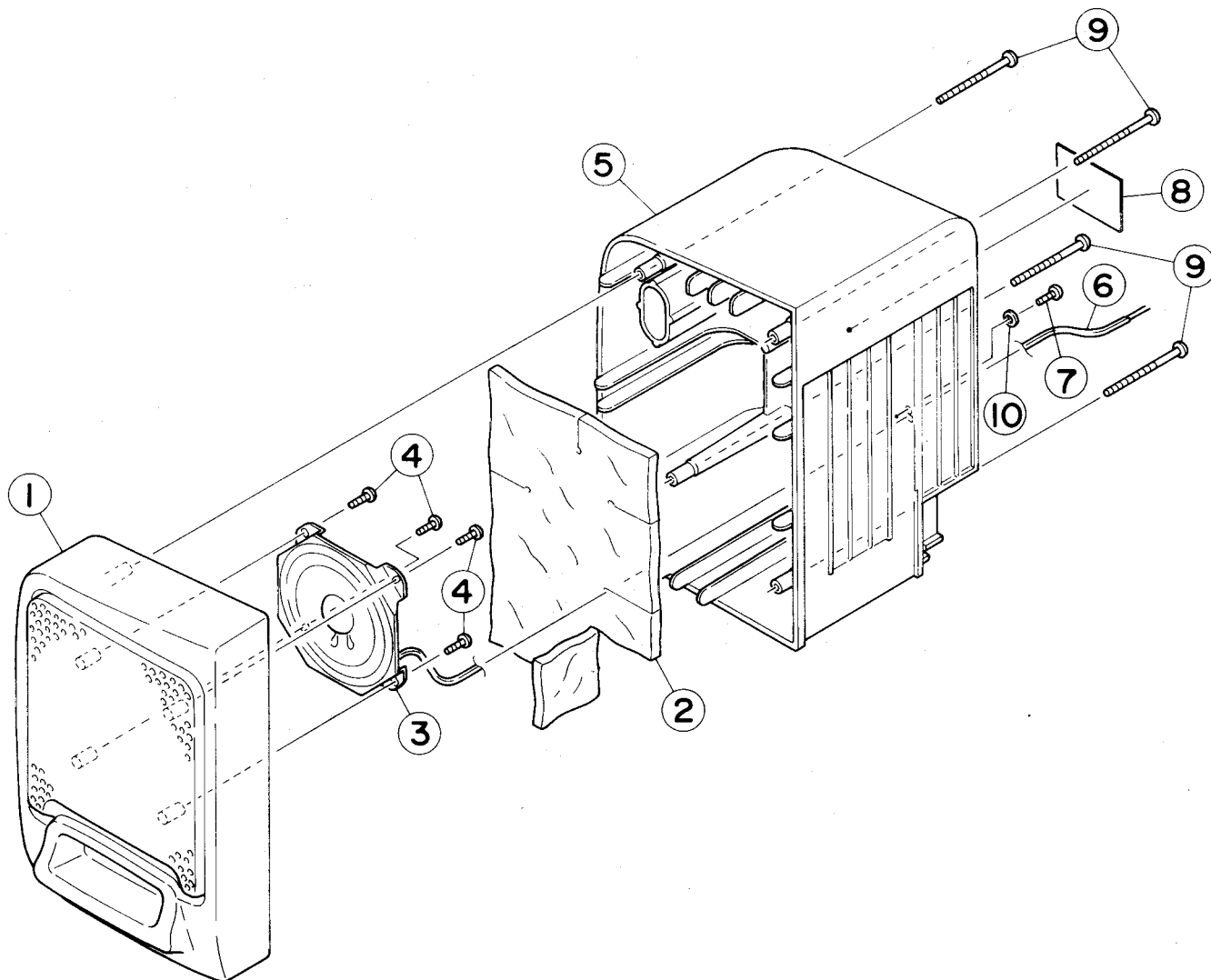
Fig. 8-4

■ CD Mechanism Assembly Parts List

BLOCK NO. **M3MM**

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	MECHA BASE ASSY		1		
	2	OPTIMA-6S	CD PICKUP UNIT		1		
	3	E406777-001	C.D SHAFT		1		
	4	E307746-001	C.D RACK		1		
	6	EPB-003A	MECHA GEAR		1		
	7	E75807-301	C.D T.TABLE ASS		1		
	9	SDSP2003N	SCREW	SPENDLE MOTOR	2		
		SDSP2003N	SCREW	FEED MOTOR	2		
	10	E406783-001	SPENDLE MOTOR		1		
	11	E406784-001SA	FEED MOTOR	WITH PINION	1		
	12	E75832-001	SPECIAL SCREW		1		
	13	EMW10190-001	MECHA CIR BOARD		1		
	15	ESB1100-005	LEAF SW		1		

■ Speaker Box Assembly Section: **M** **4**



■ Speaker Box Assembly Parts List

BLOCK NO. **M4MM**

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VJC2504-00A	SPEAKER PANEL	RIGHT	1		
		VJC2503-00A	SPEAKER PANEL	LEFT	1		
	2	VKZ4687-001	SOUND ABSORBER		1		
	3	VGS1001-022	SPEAKER UNIT		1		
	4	SBSF3010Z	TAP.SCREW	SPEAKER + FRONT	4		
	5	VJG1112-002	REAR CABINET	LEFT	1		
		VJG1114-002	REAR CABINET	RIGHT	1		
	6	VMP0040-002T	SPK CORD		1		
	7	SBSF3008M	SCREW	FOR SPK CORD ST	1		
	8	FMYN7002-001B	NAME PLATE	FOR REAR CABINE	1		
	9	SBSF3050Z	SCREW	FRONT + REAR	4		
	10	VYSS2R7-006	SPACER	FOR SPK CORD ST	1		

9. Main Adjustments

■ Test Instruments required for adjustment

1. Low frequency oscillator
(oscillation frequency: 50Hz to 20kHz)
(Output : 0 dBs with 60 Ω terminator)
2. Attenuator(Impedance : 600 Ω)
3. Test Tapes
VTT703L.....Head azimuth(10kHz)
VTT712 Tape speed & wow flutter(3kHz)
VTT739 Playback output level & frequency
response (1kHz)
4. Electronic voltmeter
5. Resistor...600 Ω for attenuator matching
6. Distortion meter
7. Torque gauge Cassette type for CTG — N
mechanism adjustment
8. Wow and Flutter meter
9. Frequency counter
10. Test tape for REC/PB Normal tape : UR(TMT7088)

■ Measuring conditions (Amplifier section)

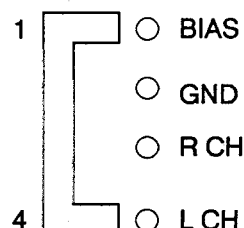
Supply voltage:..... AC 120V(60Hz)
Battery DC : 12V
Back up battery : 4.5V

Reference output : Speaker 0 dBs (0.775V) / 3 Ω
: Headphone 0dBs(0.775V)/ 32 Ω

● Standard position of functionswitches

Function switch TAPE
Tape select switch NORMAL
Multi — bass horn OFF
BASS/TREBLE CENTER
Volume level..... 13
Mode switch STEREO
Reference input level..... Test point CN301 : — 18 dBs
For REC/PB, Check & measuring input use
CN301 — 18.0 dBs (Component side)

CN301: Connector



Output for measuring unless otherwise specified

At headphone J301 with dummy load 32 Ω

BIAS oscillation frequency 101.0kHz \pm 150Hz at FM

(The tape select switch to NORMAL.)

Standard frequency for alignment and measurement as
a general specification is 1 kHz, but unless otherwise
specified.

Note : When measuring at headphone output, sound from
speaker output should be automatically cut off.

■ Measuring condition (Radio section)

Reference output Speaker : 20mW(0.245V) / 3 Ω
AM frequency 400Hz modulation 30%
FM frequency 400Hz modulation
frequency deviation 22.5kHz

● Standard position of switches and controllers

Function..... RADIO
Mode STEREO
Equalizer frequency CENTER
Multi bass horn OFF

● Careful points for adjustment

1. Connect 30 pF capacitor and 33 k Ω resistor to the
output side of the IF sweeper in series while 0.082 μ
F capacitor and 1000k Ω resistor to the input side in
series.
2. Set output level of the IF sweeper as minimum as
adjustable.

Mechanism & Amplifier Sections

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Head azimuth adjustment	Test tape :VTT703L (10 kHz) Test point :Headphone (Dummy load 32 Ω)	Play test tape VTT703L(10kHz) and adjust the head azimuth so that output level is maximum and phase discrepancy is minimum between the two channels.	Output :maximum Phase difference :minimum	Head adjusting screw
Tape speed adjustment	Test tape : VTT712(3kHz) Test point : Headphone (Dummy load 32 Ω)	Play test tape VTT712 (3kHz) and near the end position. Should the following tape speed is out of specification, it is necessary to adjust the speed controller (external /semiifixed resistor).	Normal speed : 3010 ± 80 Hz High speed : 5400 ± 400 Hz	VRA61
Wow and flutter check	Test tape :VTT712(3kHz) Test point :Headphone (Dummy load 32 Ω)	Play test tape VTT712(3kHz) to tape start, middle and end position. Wow and flutter should be within the following allowance at the three positions.	Playback should be Within 0.4% (JIS RMS)	—
Playback output level check	Test tape :VTT739(1kHz) Test point : Speaker out (Dummy load 3 Ω)	1. Play test tape VTT739(1kHz) and switch the tape select to Metal position. The playback output level should be within -3 ± 3 dB. 2. L, R difference level to be within ± 3 dB.	Within -3 ± 3 dB Within ± 3 dB	—
Playback Frequency response check	Test tape :VTT739 (1kHz//10kHz) Test point : Speaker out (Dummy load 3 Ω)	Switch tape select to Normal position and volume at maximum level of 25 position. Play test tape VTT739 then compare the level between 1 kHz and 10 kHz. Then defference level should be within 0dB ± 3 dB.	Difference of 10 kHz level from 1 kHz level : within 0 ± 3 dB	—

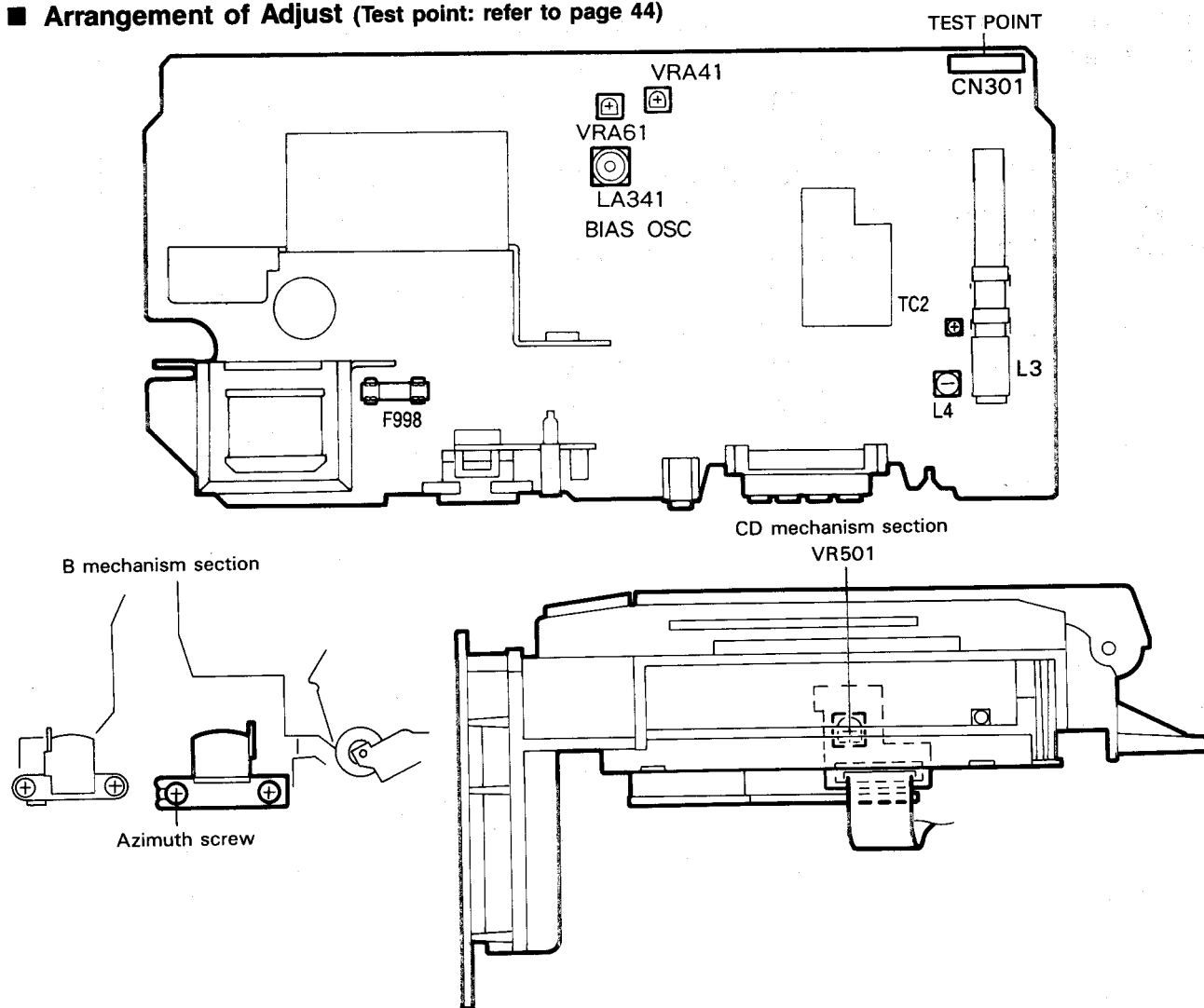
Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust																				
Bias frequency adjustment	<ul style="list-style-type: none">• Adjust : FM mode•Confirm : AM mode Test point :CN301	Switch tape select to Normal position. In case that the bias frequency is out of specification, LA341 should be readjust to standard and set to Tuner Confirm bias frequency at mode. ① Adjust bias frequency at FM mode. ② Confirm bias frequency at mode. <table><tr><th>Tuner Frequency</th><th>Bias Frequency</th><th>Tolerance</th><th>Confirmation</th></tr><tr><td>FM</td><td>101.0kHz</td><td>± 150Hz</td><td>—</td></tr><tr><td>AM530(M1)</td><td>97.6kHz</td><td>—</td><td>± 500Hz</td></tr><tr><td>AM570</td><td>101.0kHz</td><td>—</td><td>± 500Hz</td></tr><tr><td>AM600(M3)</td><td>93.7kHz</td><td>—</td><td>± 500Hz</td></tr></table>	Tuner Frequency	Bias Frequency	Tolerance	Confirmation	FM	101.0kHz	± 150Hz	—	AM530(M1)	97.6kHz	—	± 500Hz	AM570	101.0kHz	—	± 500Hz	AM600(M3)	93.7kHz	—	± 500Hz	Tuner frequency :FM / Bias frequency ; 101.0kHz : AM530(M1) /Bias frequency ; 97.2kHz	LA341
Tuner Frequency	Bias Frequency	Tolerance	Confirmation																					
FM	101.0kHz	± 150Hz	—																					
AM530(M1)	97.6kHz	—	± 500Hz																					
AM570	101.0kHz	—	± 500Hz																					
AM600(M3)	93.7kHz	—	± 500Hz																					
Recording /playback frequency response check and adjustment	Test tape : UR(Normal tape) Test point : Speaker out (Dummy load 3 Ω)	Select function to tape mode and volume at level 25 position. Reference level of – 20 dB, (1 kHz and 10 kHz) perform the REC/PB function. Play back the recorded signals, adjust VR41, so that the level of the 10 kHz signal is 0dB ± 3 dB to the level of the 1 kHz signal.	10 kHz : 0 ± 3dB	VR41																				
Recording / playback sensitivity	Test point : Speaker out (Dummy load 3 Ω)	Turn NR switch to OFF, tape select switch to Normal position and Beat cut switch to Normal position 1 or Normal. Record the standard level (REF.) reduced – 20dB, 1kHz. Adjust VR41 so that test point output level to same level in play and record mode.	Playback /record : same output level	VR41																				

■ Tuner Section

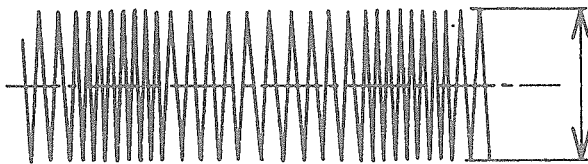
Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
AM RF tracking check	Band select : AM Input position : Standard loop antenna Measuring point: HOT : TP1 Earth: TP2	<ol style="list-style-type: none"> 1. Receive 530 kHz signal (preset No. 1) from an AM oscillator. 2. Receive 1710 kHz signal (preset No. 2) from an AM oscillator. Adjust L4 to obtain $4.8\text{ V} \pm 0.02$ at TP9 is not within the specified voltage. 3. Next, receive 600 kHz signal (preset No. 3) while adjusting L3 to maximize headphone output. 4. Next, receive 1500 kHz signal (preset No. 4) while adjusting TC2 to maximize headphone output. 5. Repeat the above steps 2. and 3. to obtain maximum outputs respectively. 	output level : Maximum $4.8\text{ V} \pm 0.02$	L4 L3 TC2

★ AM IF, FM IF : No alignment is necessary in using the solid IF.

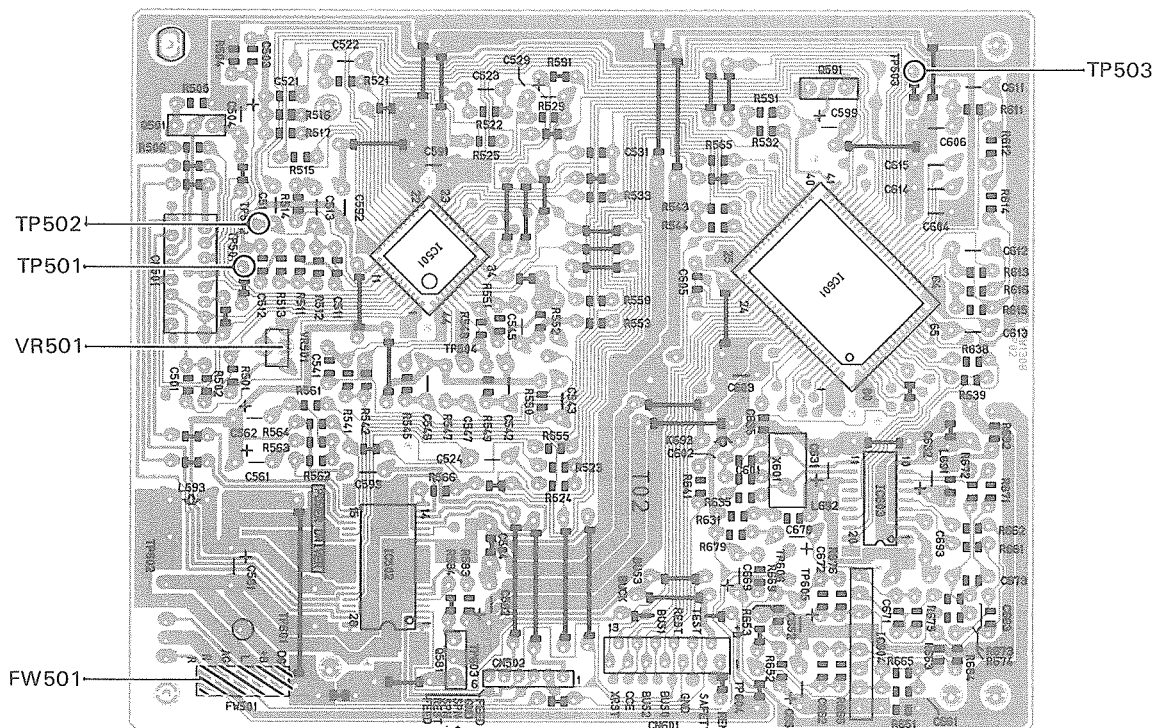
■ Arrangement of Adjust (Test point: refer to page 44)



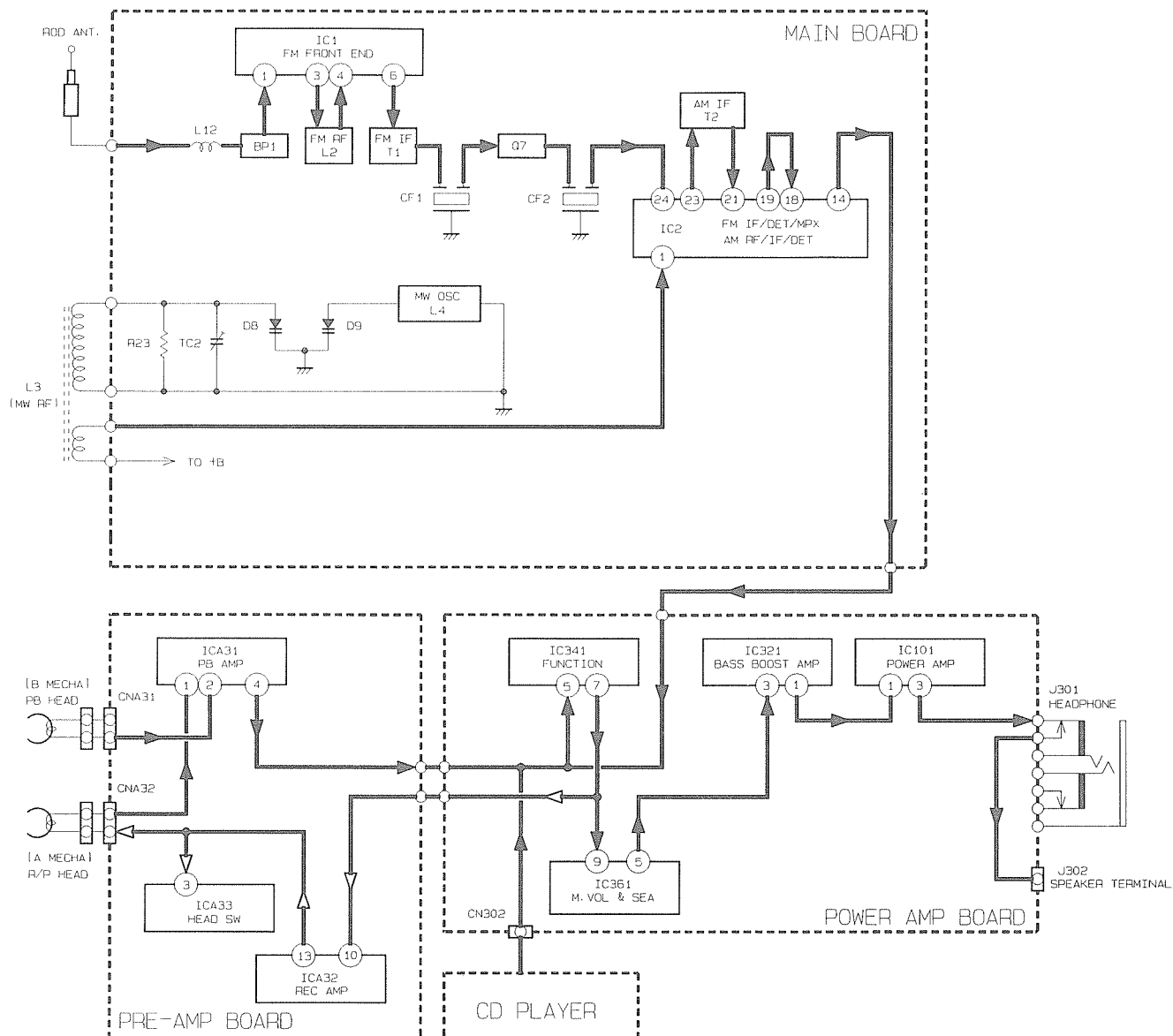
■ CD player Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Tracking offset adjustment	Normal disc :CTS1000 Oscilloscope	<ol style="list-style-type: none"> 1. Connect an oscilloscope between TP503 (Hot side) and TP502 (Earth side). 2. Shortcircuit between pin ② and pin ⑤ of FW501, and supply 8 V to pin ③ . 3. Playback a normal disc. 4. Shortcircuit between TP504 and TP502. 5. Adjust VR501 so that DC level of tracking error signal becomes zero (observed by oscilloscope). 	Set the center of P – P to the DC zero level.	VR501
		<p>Tracking offset waveform</p>  <p>Note : (1) Adjust VR501 so that the waveform is vertically symmetric with respect to the zero level.</p> <p>(2) Input to the oscilloscope should be DC coupling.</p>		

■ Arrangement of adjusting positions : CD amplifier P.C. board



10. Block Diagram



CD player section

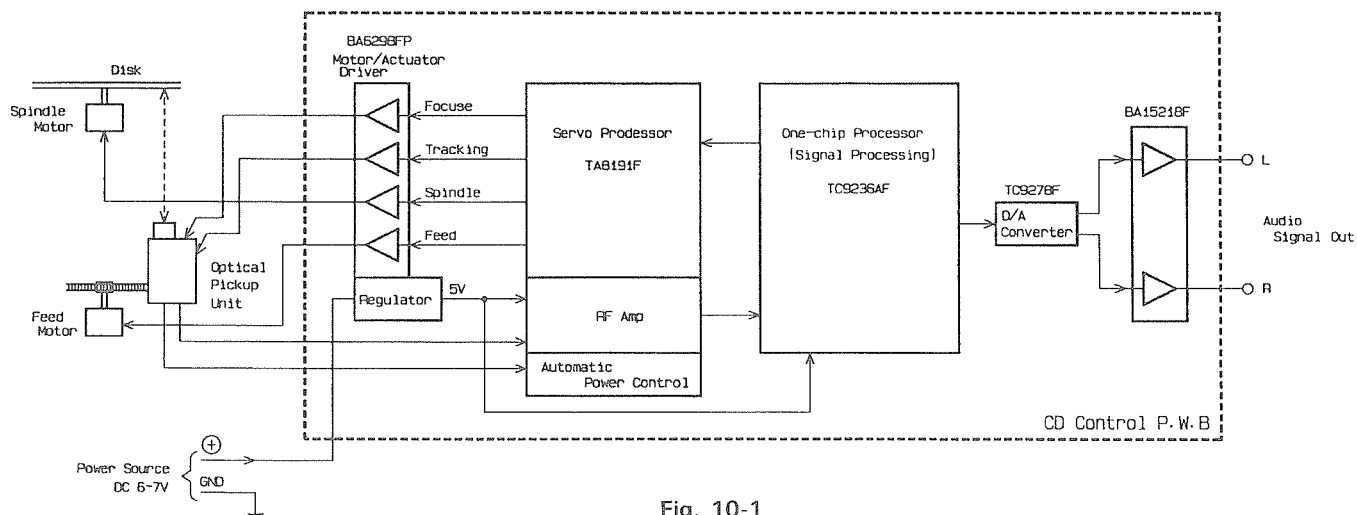
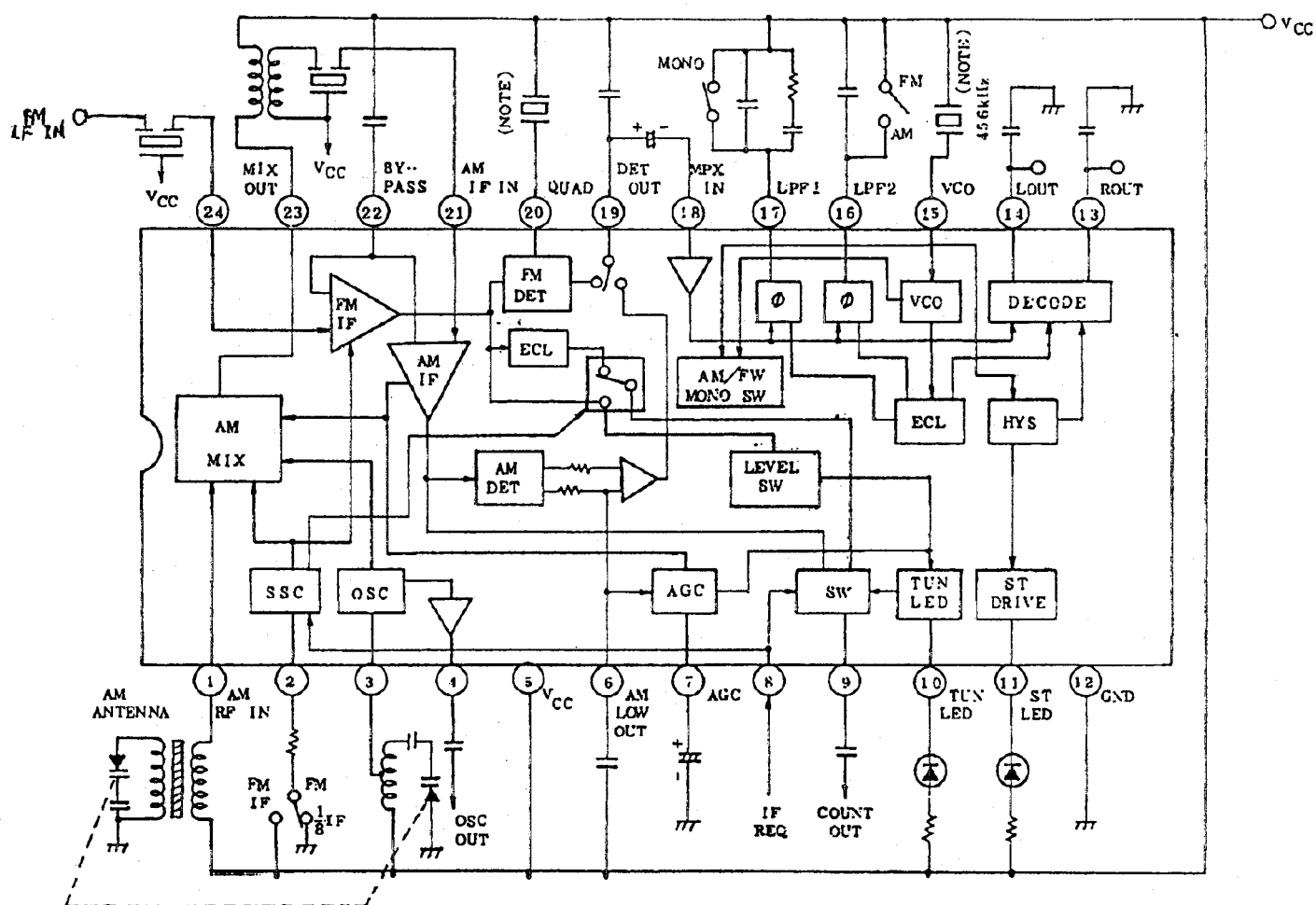


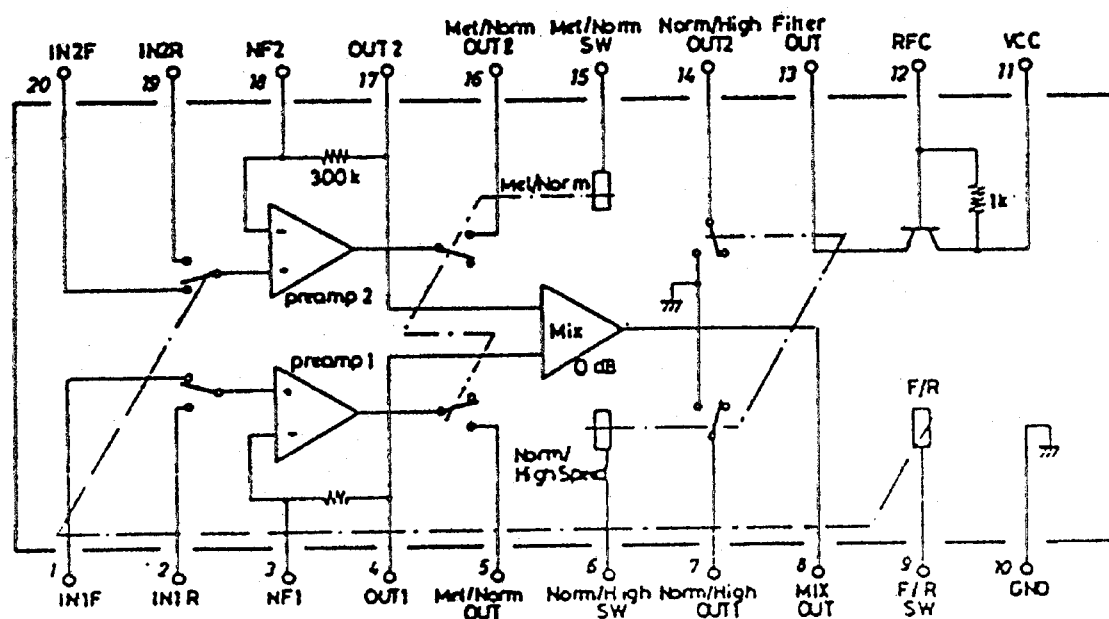
Fig. 10-1

IC Block diagram

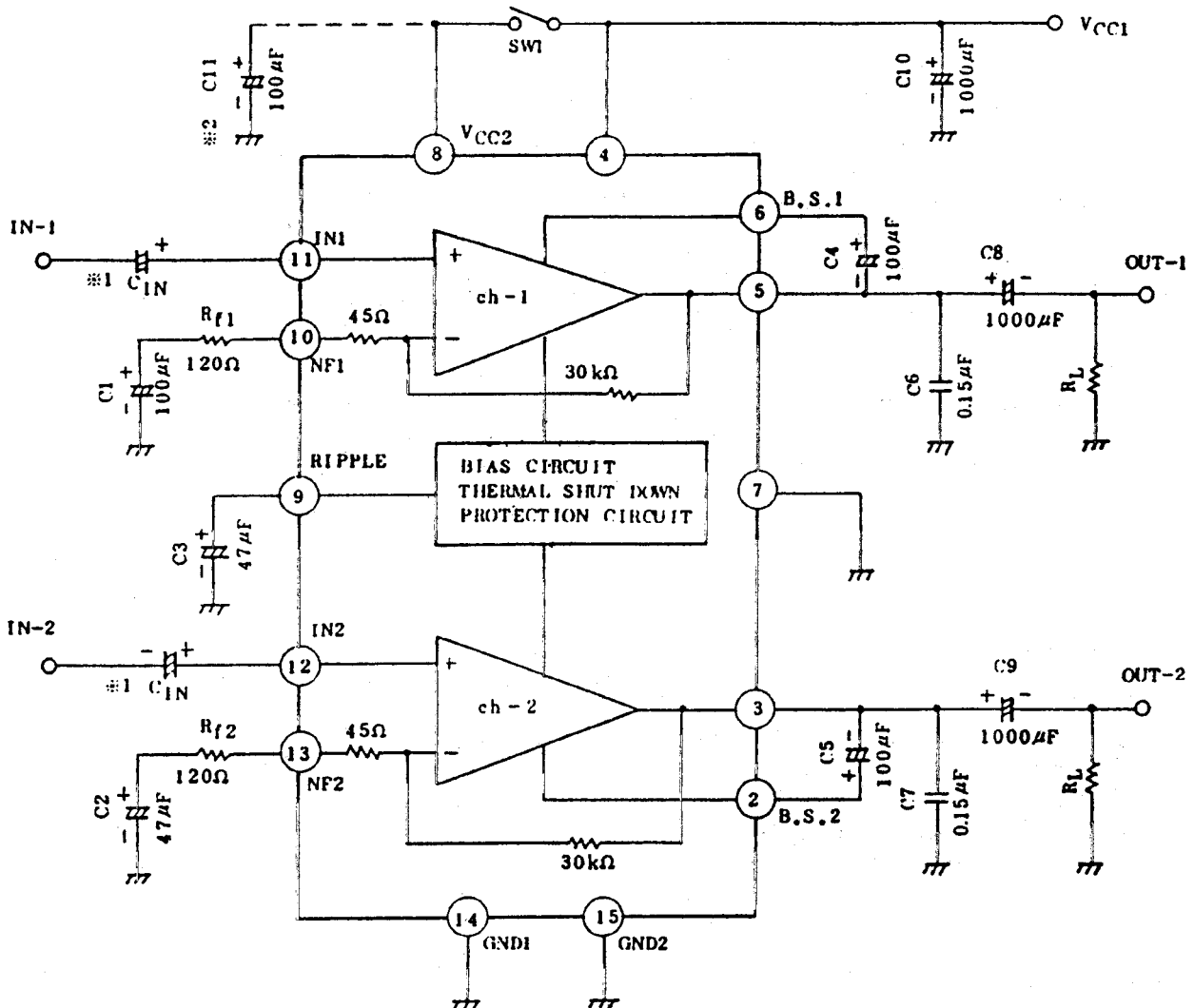
IC 2 (FM IF / DET / MPX & AM RF / IF / DET) : TA 8132AN



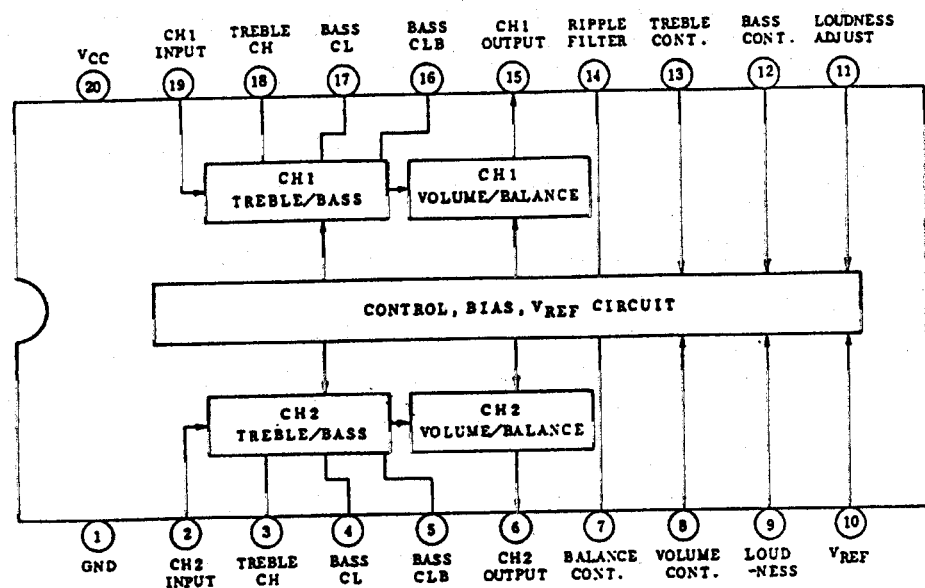
ICA 31 (PRE AMPLIFIER) : LA3246



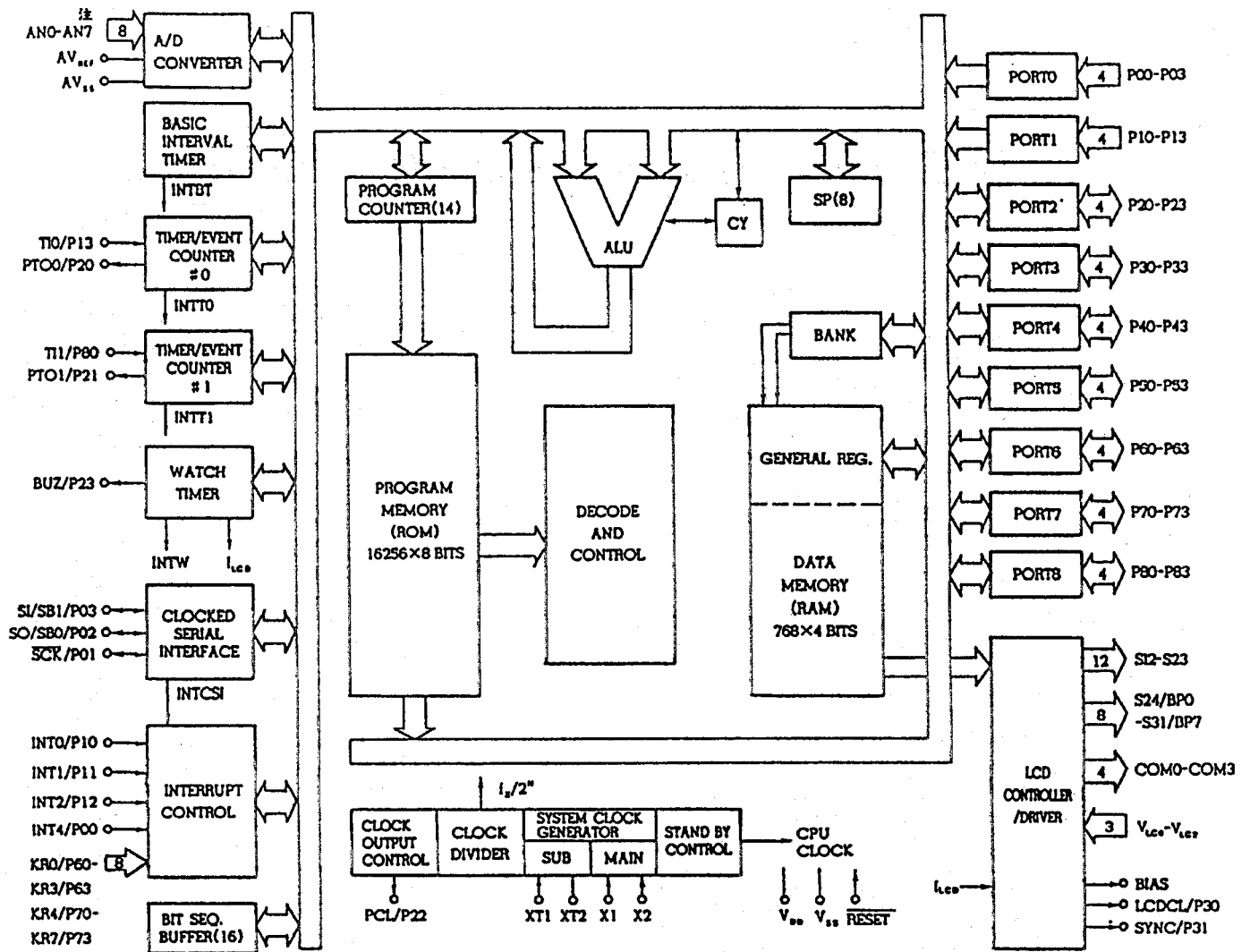
● IC 101 (POWER AMPLIFIER) : TA8229K



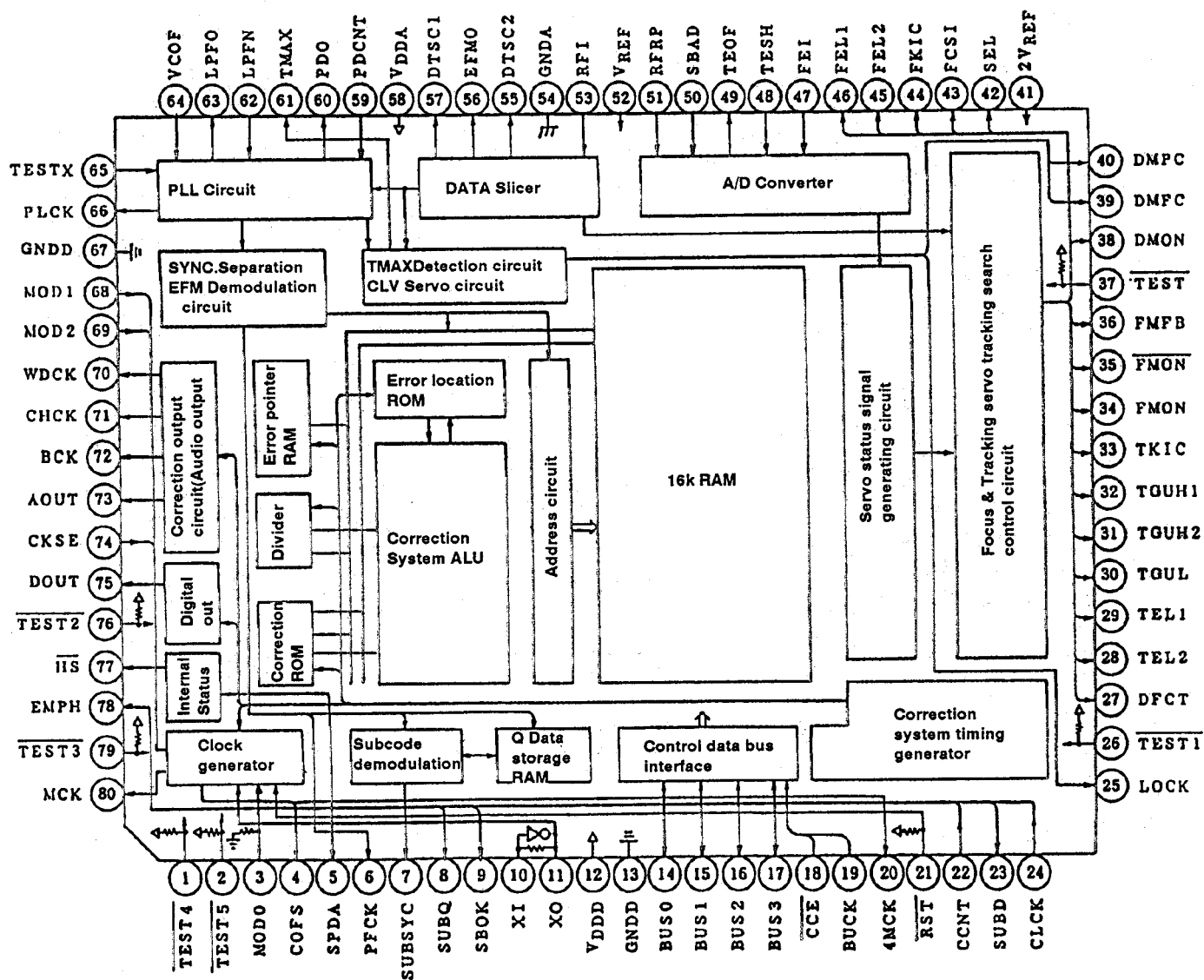
● IC361
(MAIN VOLUME & TONE)
: TA8184P



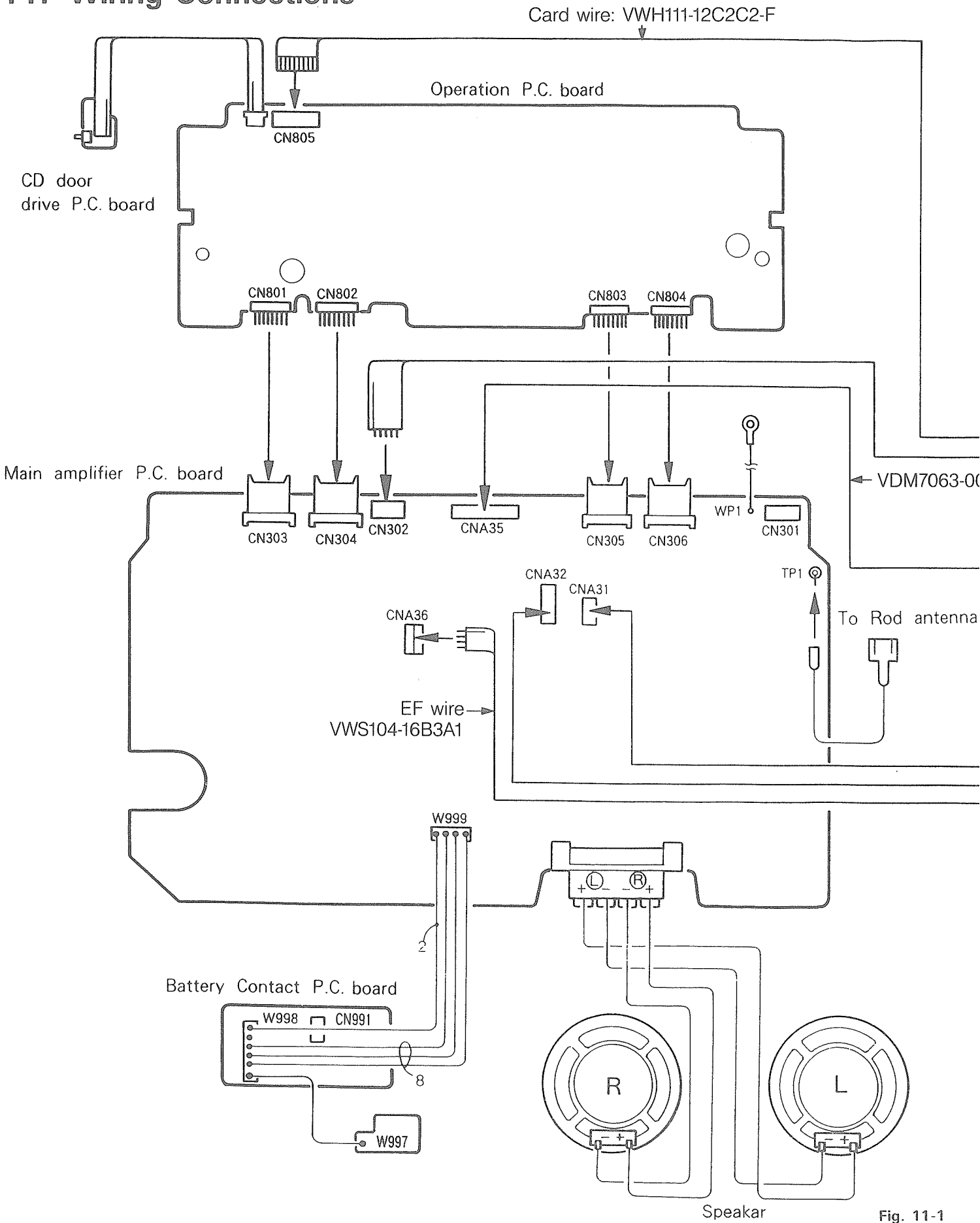
● IC801 (SYSTEM MICRO COMPUTER) : μ PD75336GC - 073

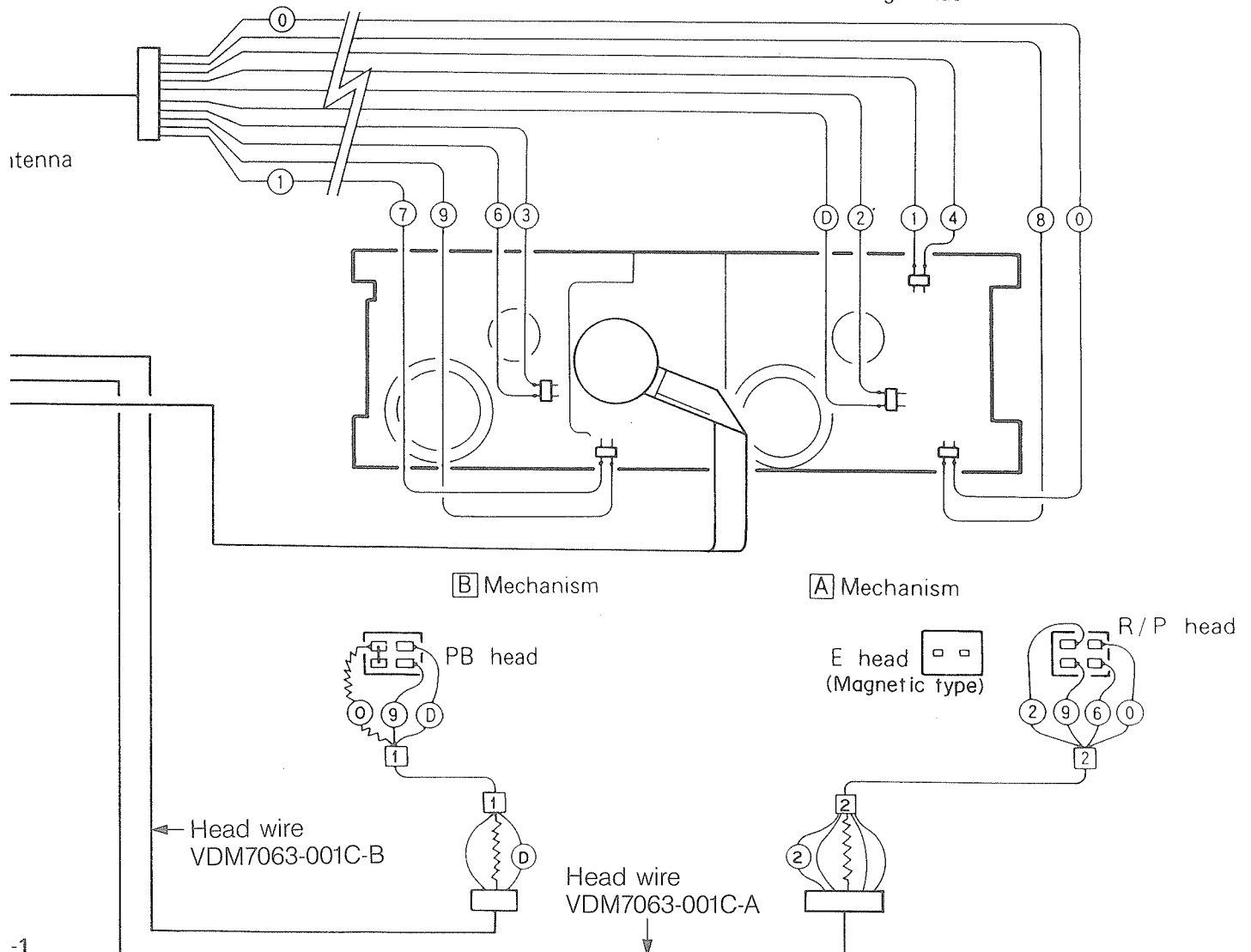
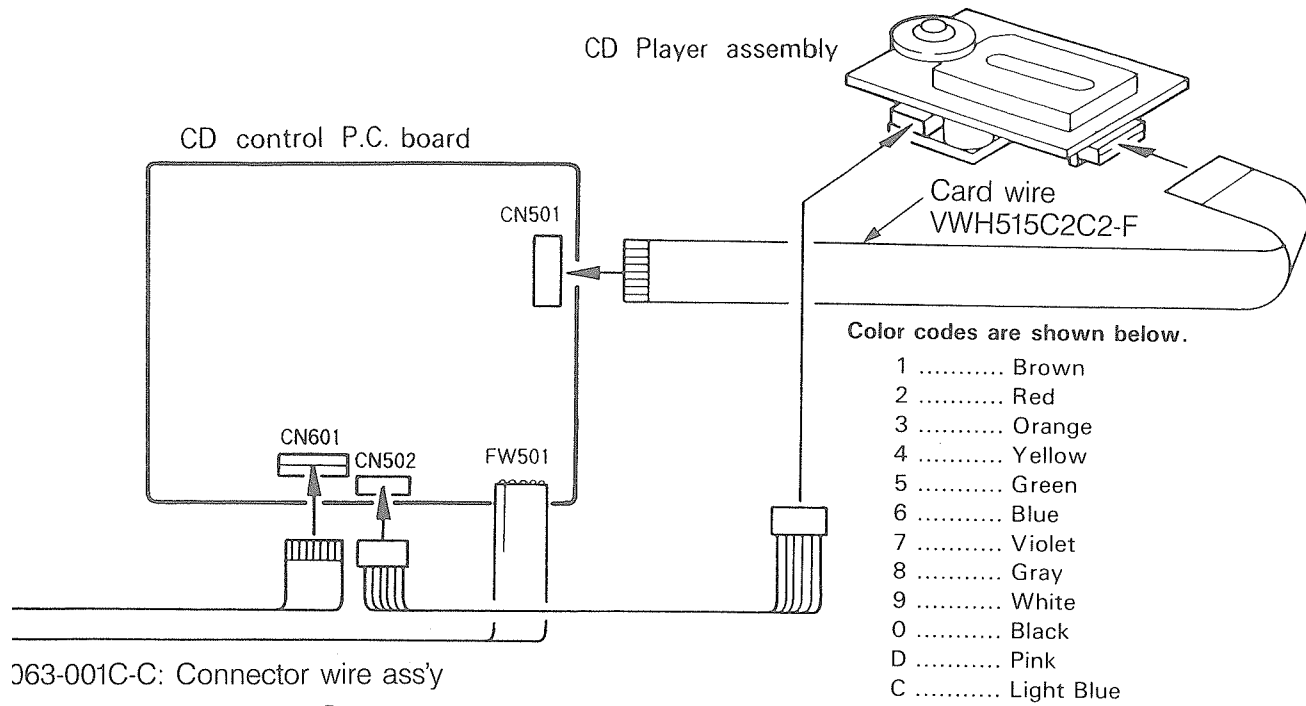


● IC 601 (1 CHIP PROCESSER) : TC9236AF

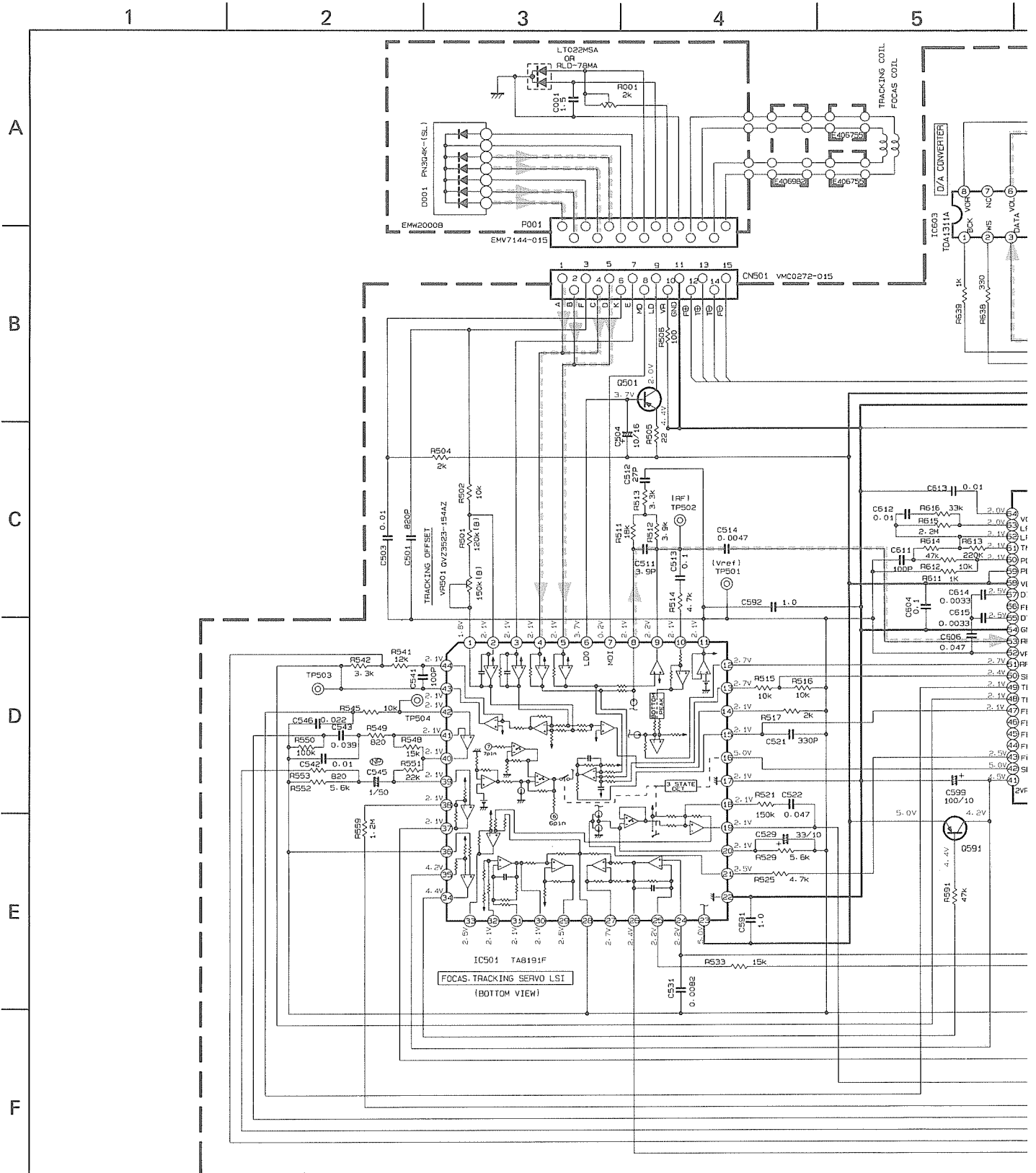


11. Wiring Connections





12. Standard Schematic Diagrams ■ CD Amplifier Circuit: Drawing No. FMDH7



- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER IN PLAYBACK.
 2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN Ω(M)k(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN p(F)μ(F)n(F).
ALL INDUCTANCE VALUES ARE IN μ(H)m(H).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
- (C) UNFLAMMABLE CARBON RESISTOR
 (R) METAL FILM RESISTOR
 (O) OXIDE METAL FILM RESISTOR
 (L) ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
 (N) NON-POLARISED ELECTROLYTIC CAPACITOR
 (P) POLYPROPYLENE CAPACITOR
 (S) POLYSTYRENE CAPACITOR

Q501	2SA952(L, K)
Q581	
Q591	2SA1309(R, S) OR 2SA1175(H, E) OR 2SA933S(R, S)
Q651	UN4115 OR DTA114TS OR BA1A4Z
Q651	
Q671	UN4215 OR DTC114TS OR BN1A4Z

Q671-Q651

Q651

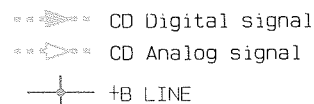
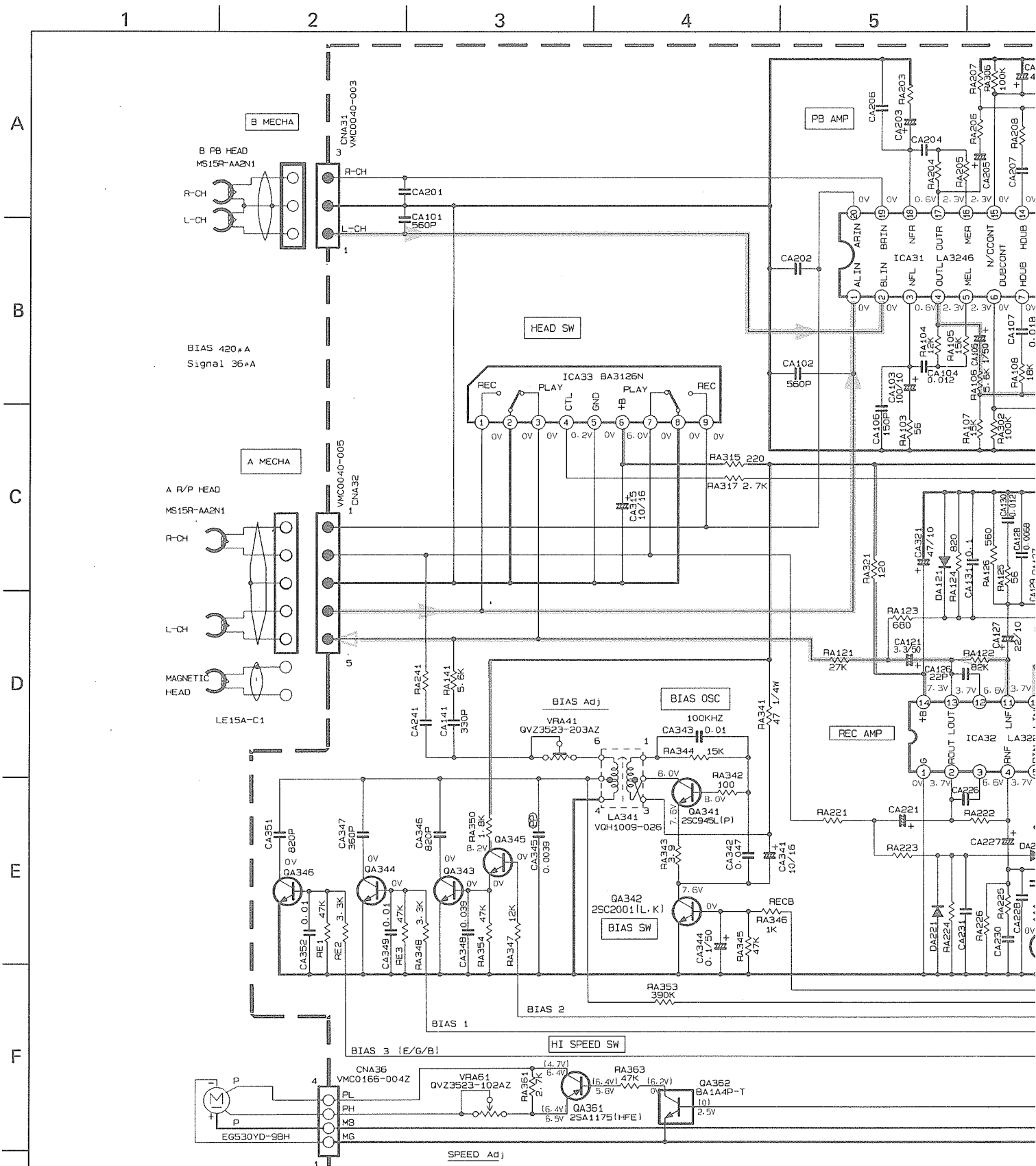


Fig. 12-1

■ Pre-Amplifier Circuit: Drawing No. FMDH7002-001RW



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION : TAPE MODE A MECHA PB.
CONDITION : HIGH SPEED REC IN ()

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED
ALL DIODES ARE 1SS133
ALL TRANSISTORS ARE 2SC2785(E,F)

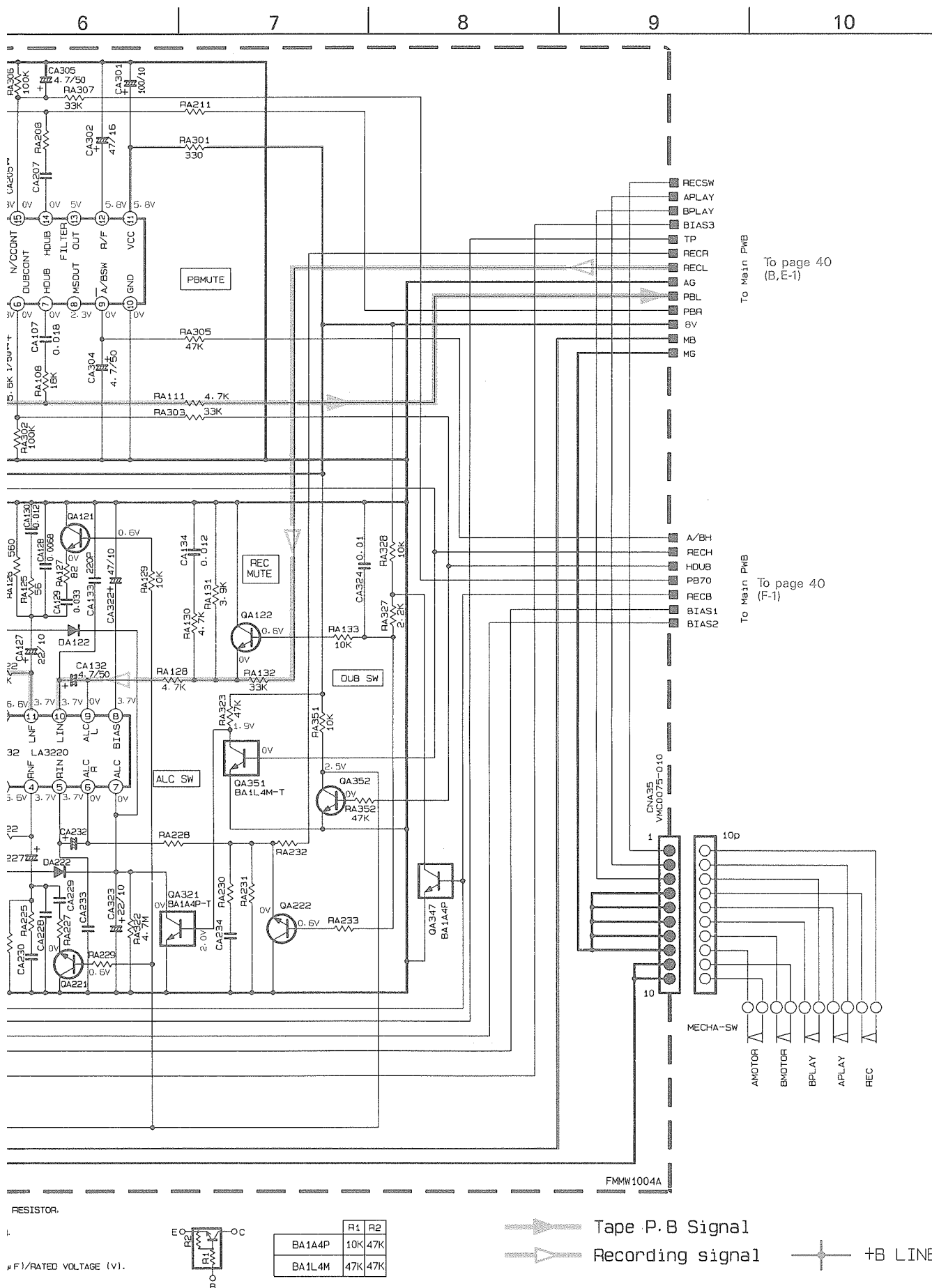
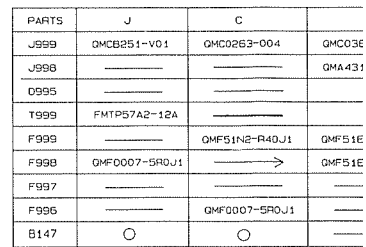
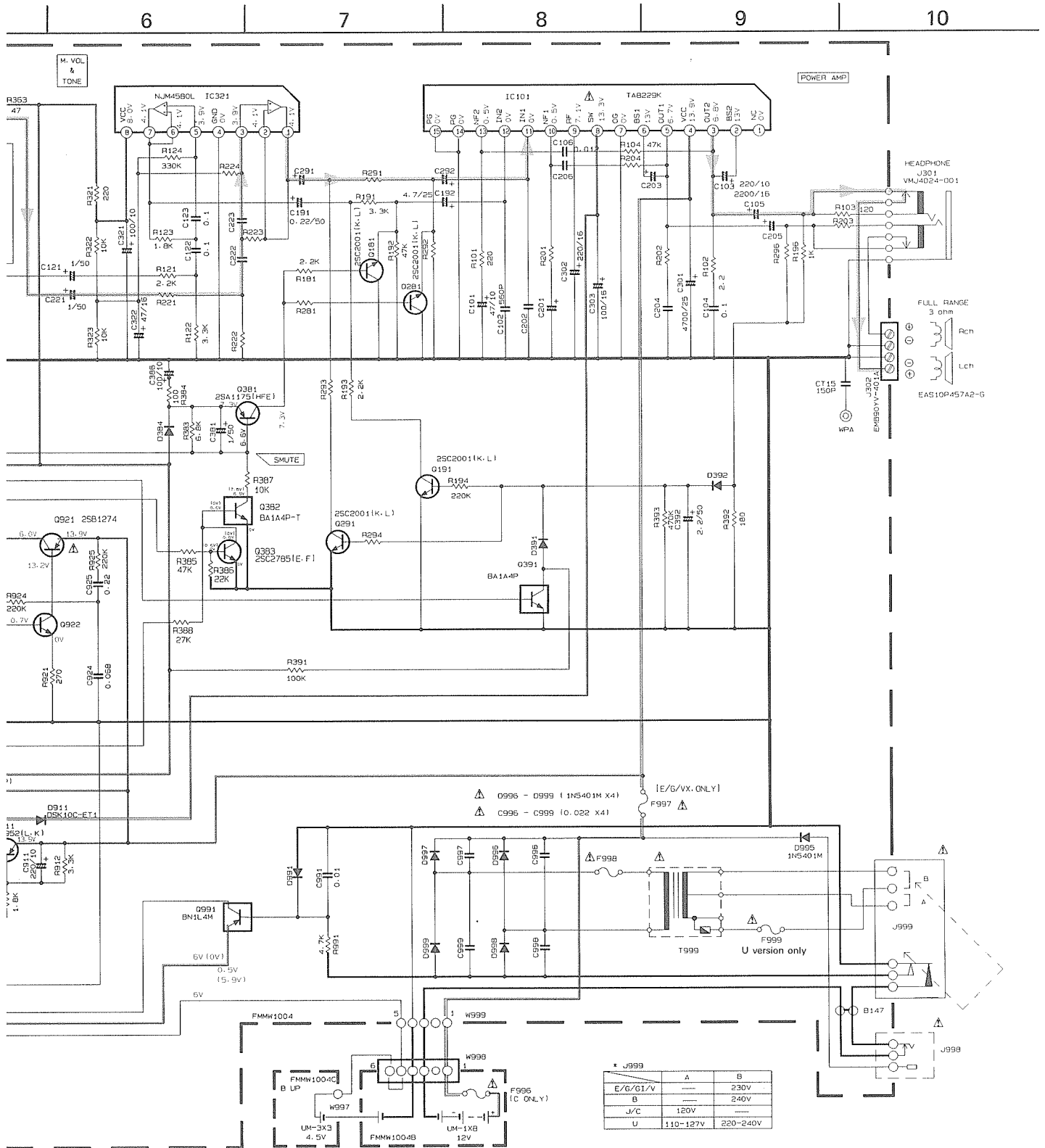


Fig. 12-2

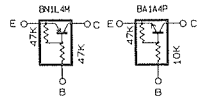
G



(No. 1903) 44



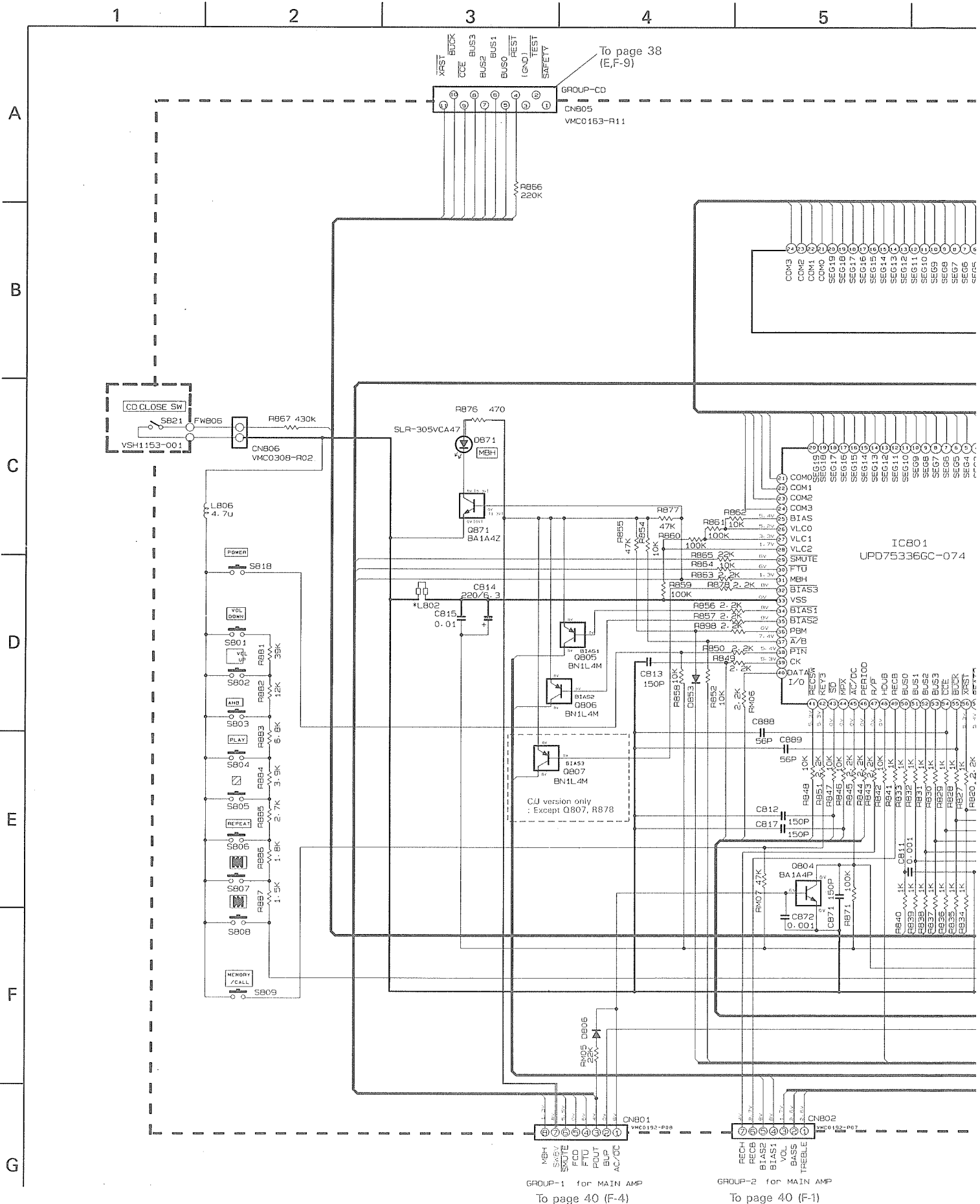
	U	E	VX/B/G/G1
	QMC0362-002	QMC0263-004	→
	QMA431B-V01	→	→
	○	○	→
	VTP57P2-12C	→	→
1	GMF51E2-R40J1	→	→
	GMF51E2-SR0J1	→	→
	GMF51E2-SR0J1	→	→
1	→	→	→
	○	○	→



J999	A	B
E/G/G1/V	→	230V
B	→	240V
J/C	120V	→
U	110-127V	220-240V

- CD Analog signal
- Recording signal
- Tape P.B Signal
- FM Radio signal
- +B LINE

■ System Micro Computer Circuit: Drawing No. FMDH7002-001SA



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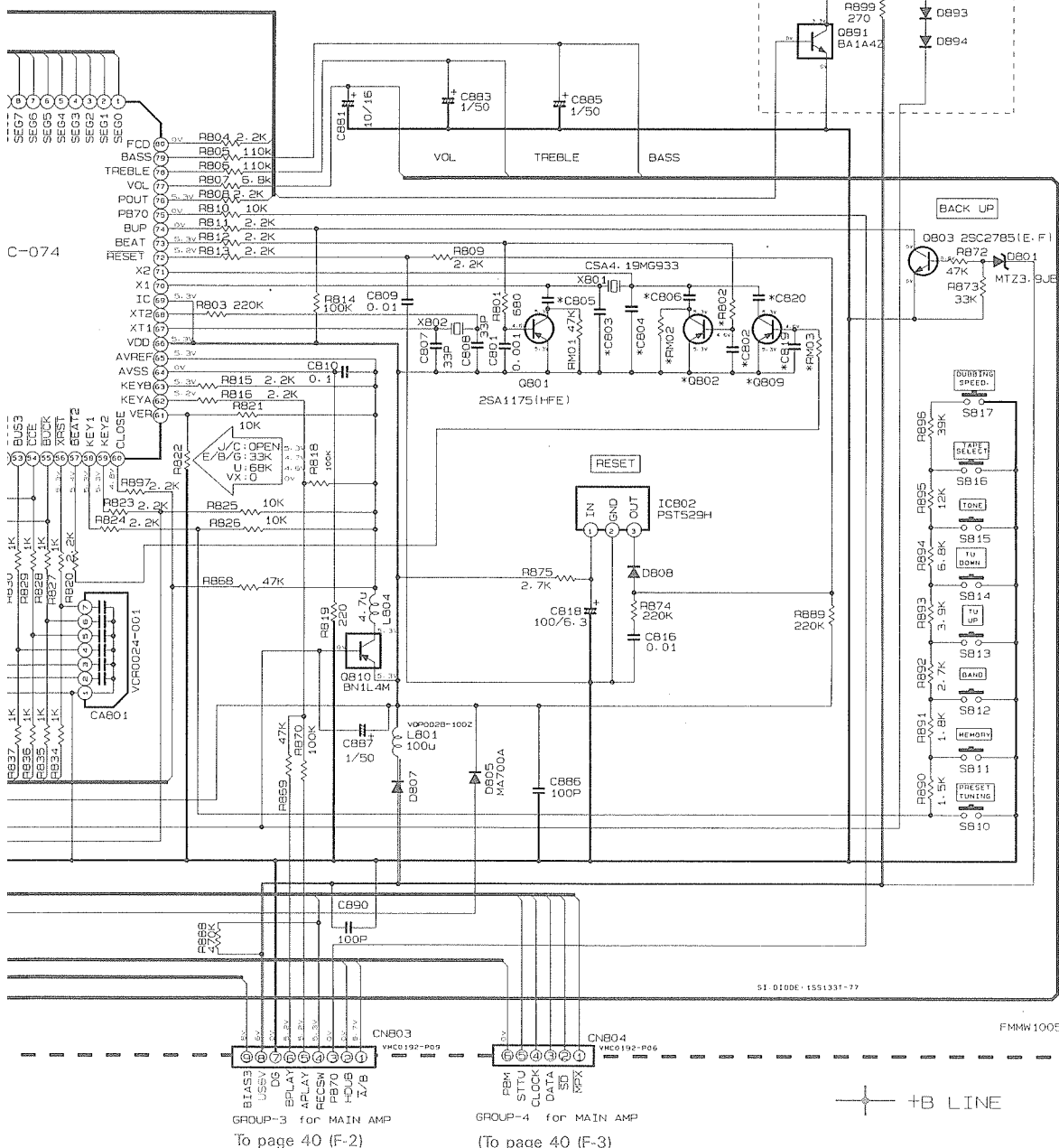
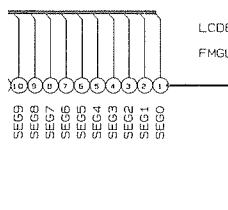
	J/C/E/G	VX		J/C/E/G	VX
*CB02	0.001	—	*RB02	680	—
*CB03	12P	10P	*RM02	47K	—
*CB04	10P	15P	*RM03	—	680
*CB05	56P	33P	*QB02	2SA1175(HFE)	—
*CB06	68P	—	*QB09	—	2SA1175(HFE)
*CB20	—	68P	*LB02	—	—
*CB19	—	0.001			

LCD81

FMGL0001-001

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT-METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION -- TAPE MODE. DC 12V.
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ± 5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHM. (Ω)
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN μF (μ = pF).
ALL INDUCTANCE VALUES ARE IN mH (m = mH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS133T-77 OR MT23.9UBST OR MA700A-TA.



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(No. 1903) 46

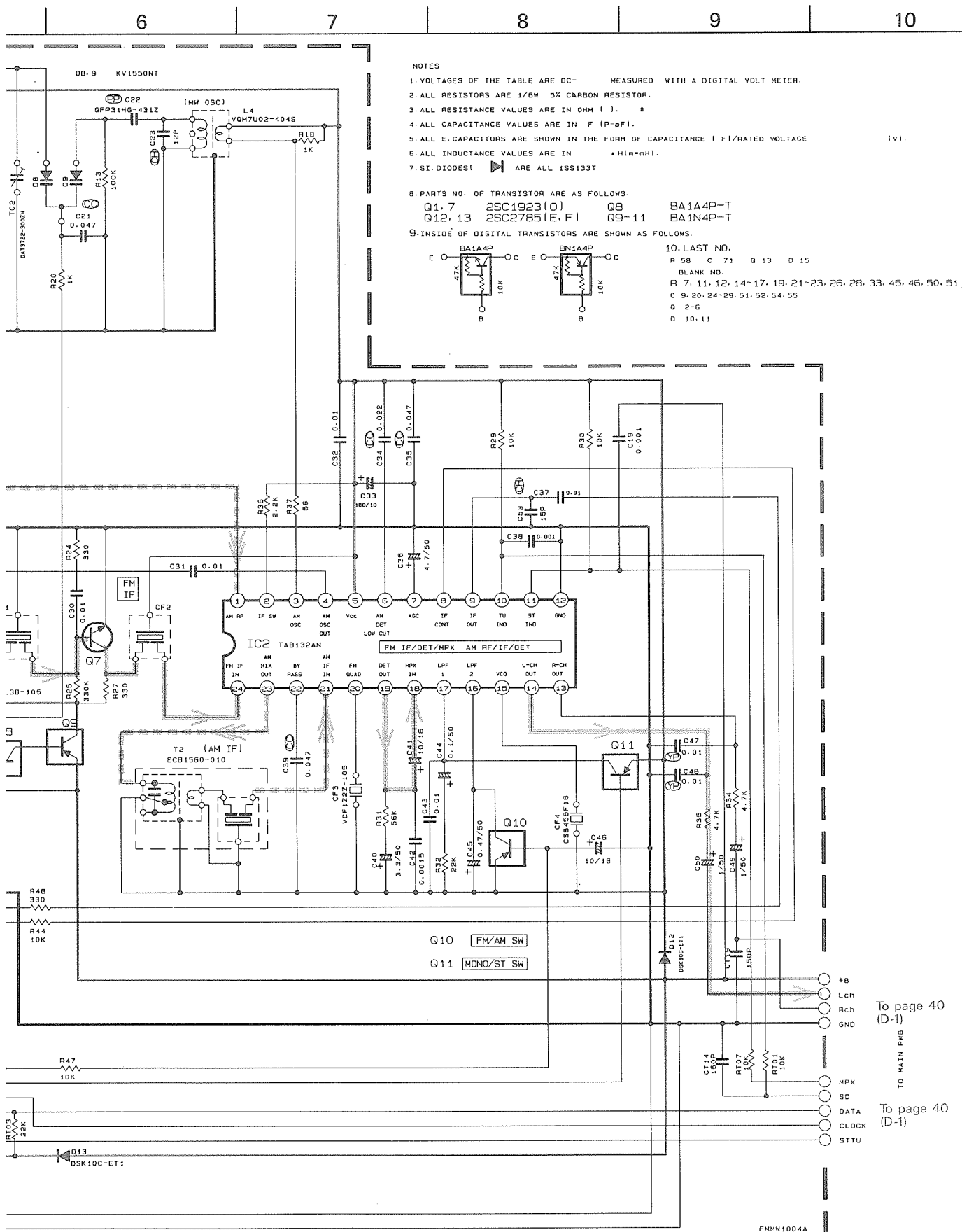
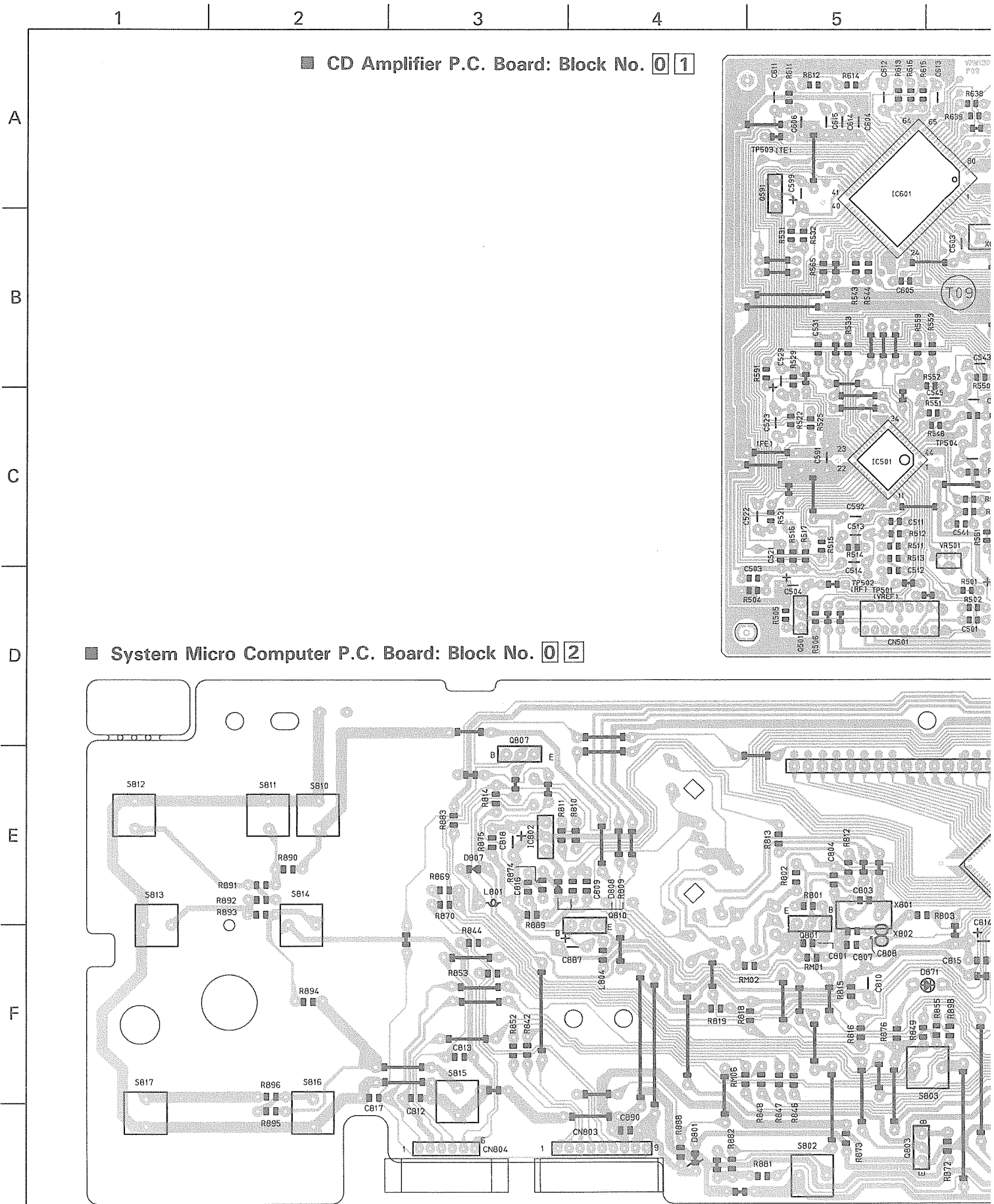


Fig. 12-4

AM Radio signal

FM Radio signal

13. Location of P.C. Board Parts



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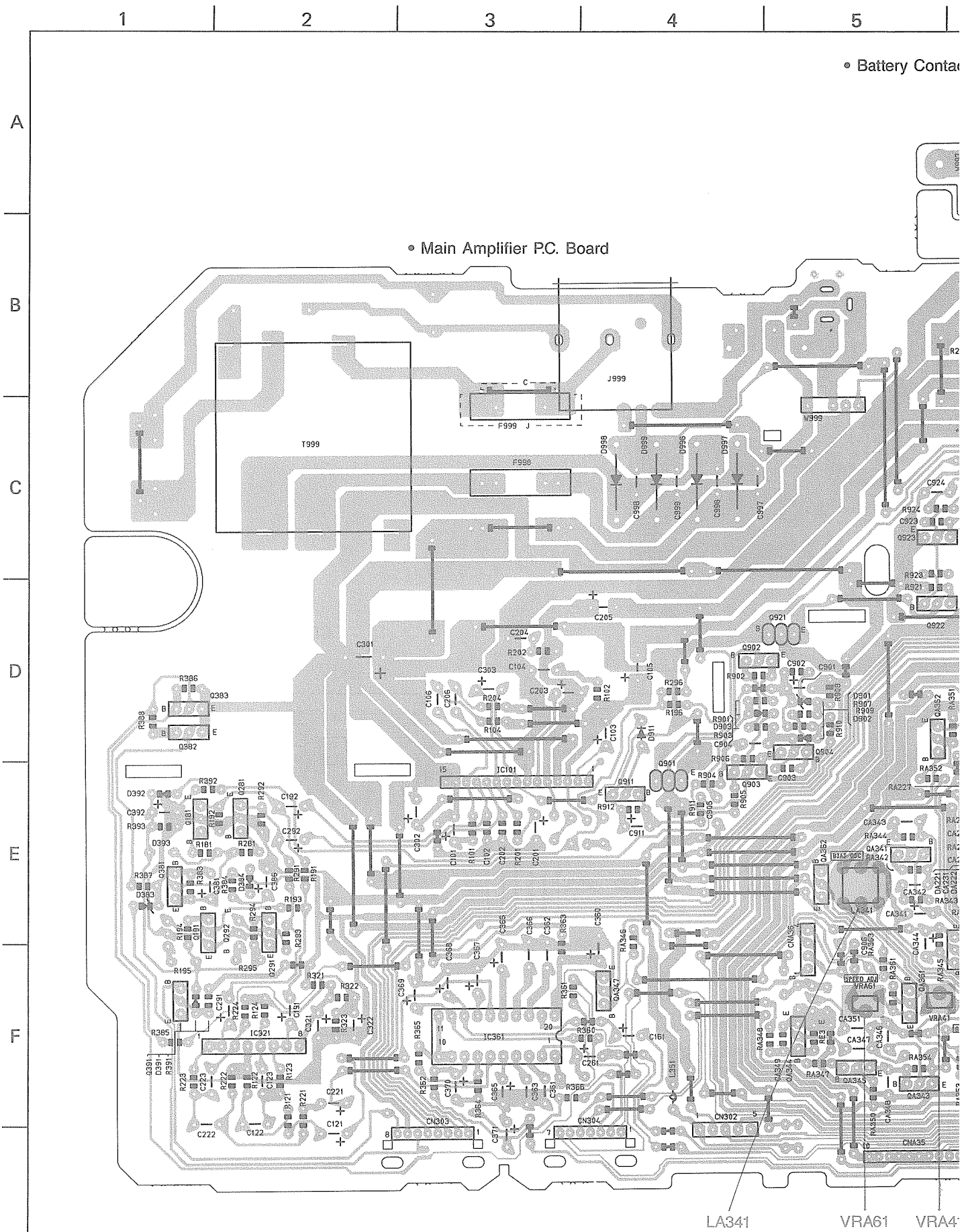
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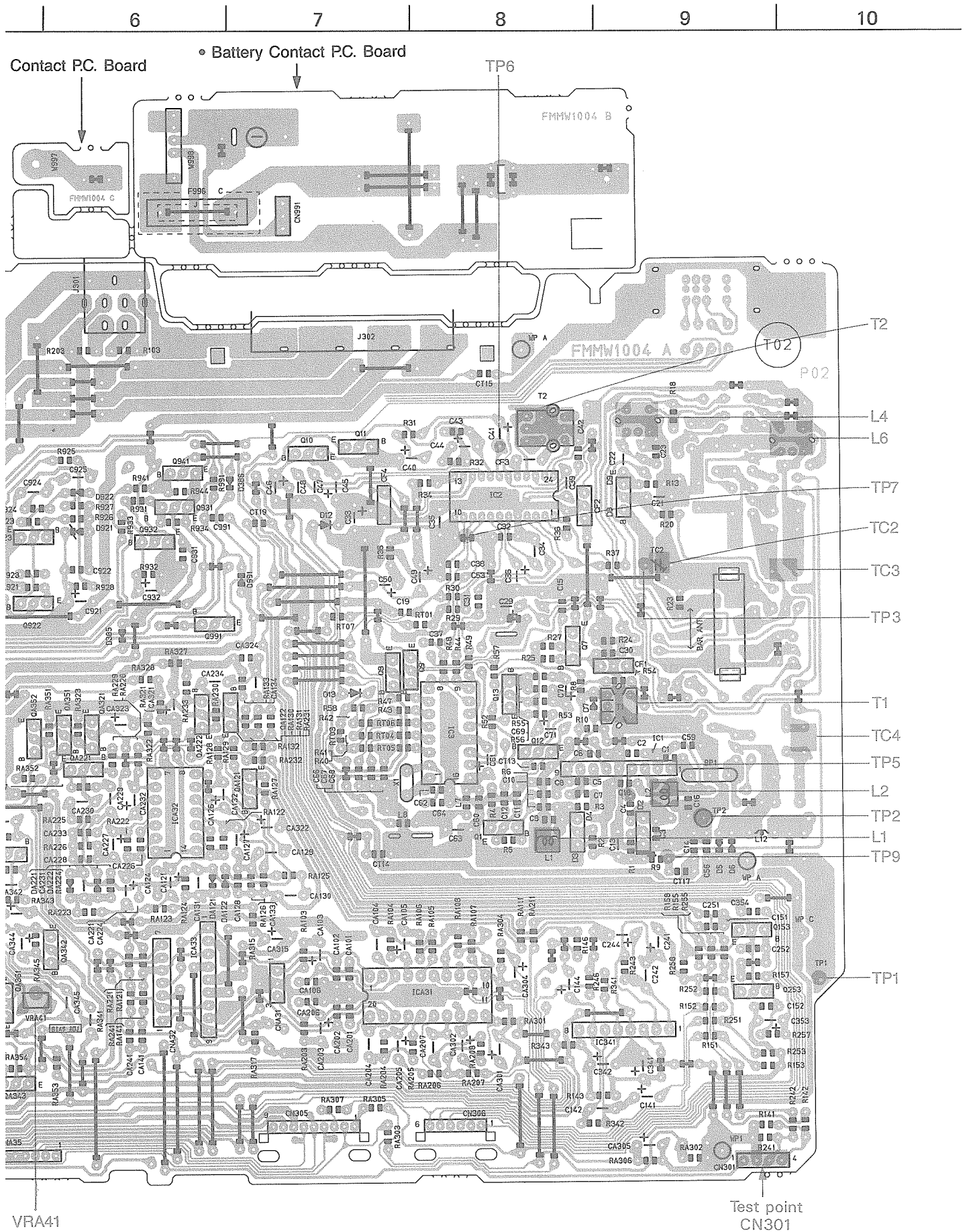
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■ Main P.C. Board : Block No. 03





14. Electrical Parts

● CD Amplifier P.C. Board

BLOCK NO. 01					BLOCK NO. 01					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 501	QCB81HK-821Y	C. CAPACITOR	820PF 10% 50V		IC501	TA8191F	IC			
C 503	QCVB1CM-103Y	C. CAPACITOR	-0.10MF 20% 16V		IC502	BA6298FP	IC			
C 504	QETC1CM-106Z	E. CAPACITOR	10MF 20% 16V		IC601	TC9236AF	IC			
C 511	QCSB1HJ-3R9	C. CAPACITOR	3.9PF 10% 50V		IC603	TD41311A	IC			
C 512	QCSB1HJ-270Y	C. CAPACITOR	27PF 5% 50V		IC604	BA15218N	IC			
C 513	QFLC1HJ-1042M	M. CAPACITOR	-10MF 5% 50V		Q 501	2SA952(L,K)	TRANSISTOR I/M			
C 514	QFN31HJ-472Z	M. CAPACITOR	4700PF 5% 50V		Q 581	2SA952(L,K)	TRANSISTOR I/M			
C 521	QCB81HK-331Y	C. CAPACITOR	330PF 10% 50V		Q 591	2SA933S(RS)	TRANSISTOR			
C 522	QFLC1HJ-4732M	M. CAPACITOR	-0.47MF 5% 50V		Q 651	BN1A42-T	DIGITAL TRANSI.			
C 523	QFB81HJ-154	M.M. CAPACITOR	-15MF 5% 50V		Q 661	BA1A42-T	DIGITAL TRANSI.			
C 524	QEN61ER-4752N	E. CAPACITOR	4.7MF +30%-10%		Q 671	BA1A42-T	DIGITAL TRANSI.			
C 529	QETC1AM-3362M	E. CAPACITOR	33MF 20% 10V		R 501	QRD161J-124	C. RESISTOR	120K 5% 1/6W		
C 531	QCVB1CM-822Y	C. CAPACITOR	8200PF 20% 16V		R 502	QRD161J-103	C. RESISTOR	10K 5% 1/6W		
C 541	QCB81HK-101Y	C. CAPACITOR	100PF 10% 50V		R 504	QRD161J-202	C. RESISTOR	2.0K 5% 1/6W		
C 542	QFLC1HJ-1032M	M. CAPACITOR	-0.10MF 5% 50V		R 505	QRD161J-220	C. RESISTOR	22 5% 1/6W		
C 543	QFLC1HJ-3932M	M. CAPACITOR	-0.39MF 5% 50V		R 506	QRD161J-101	C. RESISTOR	100 5% 1/6W		
C 545	QEN61HM-105Z	NP E CAPACITOR	1.0MF 20% 50V		R 511	QRD161J-183	C. RESISTOR	18K 5% 1/6W		
C 546	QFLC1HJ-2232M	M. CAPACITOR	-0.22MF 5% 50V		R 512	QRD161J-392	C. RESISTOR	3.9K 5% 1/6W		
C 561	QETC1AM-476Z	E. CAPACITOR	47MF 20% 10V		R 513	QRD167J-332	C. RESISTOR	3.3K 5% 1/6W		
C 562	QETC1HM-475Z	E. CAPACITOR	4.7MF 20% 50V		R 514	QRD161J-472	C. RESISTOR	4.7K 5% 1/6W		
C 581	QETC1AM-4772N	E. CAPACITOR	470MF 20% 10V		R 515	QRD161J-103	C. RESISTOR	10K 5% 1/6W		
C 582	QETC1AM-1072N	E. CAPACITOR	100MF 20% 10V		R 516	QRD161J-103	C. RESISTOR	10K 5% 1/6W		
C 591	VCPO012-105Z	C. CAPACITOR			R 517	QRD161J-202	C. RESISTOR	2.0K 5% 1/6W		
C 592	VCPO012-105Z	C. CAPACITOR			R 521	QRD161J-154	C. RESISTOR	150K 5% 1/6W		
C 593	QCC11EM-104V	C. CAPACITOR	-10MF 20% 25V		R 522	QRD161J-392	C. RESISTOR	3.9K 5% 1/6W		
C 599	QETC1AM-1072N	E. CAPACITOR	100MF 20% 10V		R 523	QRD161J-472	C. RESISTOR	4.7K 5% 1/6W		
C 601	QCS11HJ-330	C. CAPACITOR	FOR CRYSTAL		R 524	QRD161J-331	C. RESISTOR	330 5% 1/6W		
C 602	QCS11HJ-330	C. CAPACITOR	FOR CRYSTAL		R 525	QRD161J-472	C. RESISTOR	4.7K 5% 1/6W		
C 603	QCC11EM-473V	C. CAPACITOR	-0.47MF 20% 25V		R 529	QRD167J-562	C. RESISTOR	5.6K 5% 1/6W		
C 604	QCC11EM-104V	C. CAPACITOR	-10MF 20% 25V		R 531	QRD161J-473	C. RESISTOR	47K 5% 1/6W		
C 605	QCVB1CM-103Y	C. CAPACITOR	-0.10MF 20% 16V		R 532	QRD161J-104	C. RESISTOR	100K 5% 1/6W		
C 606	QCC11EM-473V	C. CAPACITOR	-0.47MF 20% 25V		R 533	QRD161J-153	C. RESISTOR	15K 5% 1/6W		
C 611	QCS31HJ-101Z	C. CAPACITOR	100PF 5% 50V		R 541	QRD161J-123	C. RESISTOR	12K 5% 1/6W		
C 612	QFLC1HJ-1032M	M. CAPACITOR	-0.10MF 5% 50V		R 542	QRD167J-332	C. RESISTOR	3.3K 5% 1/6W		
C 613	QFLC1HJ-1032M	M. CAPACITOR	-0.10MF 5% 50V		R 543	QRD161J-473	C. RESISTOR	47K 5% 1/6W		
C 614	QFN31HJ-332Z	M. CAPACITOR	3300PF 5% 50V		R 544	QRD161J-223	C. RESISTOR	22K 5% 1/6W		
C 615	QFN31HJ-332Z	M. CAPACITOR	3300PF 5% 50V		R 545	QRD161J-103	C. RESISTOR	10K 5% 1/6W		
C 631	QCC11EM-473V	C. CAPACITOR	-0.47MF 20% 25V		R 548	QRD161J-153	C. RESISTOR	15K 5% 1/6W		
C 632	QETC1AM-227Z	E. CAPACITOR	220MF 20% 10V		R 549	QRD161J-821	C. RESISTOR	820 5% 1/6W		
C 651	QETC1AM-1072N	E. CAPACITOR	100MF 20% 10V		R 550	QRD161J-104	C. RESISTOR	100K 5% 1/6W		
C 652	QETC1CM-2262N	E. CAPACITOR	22MF 20% 16V		R 551	QRD161J-223	C. RESISTOR	22K 5% 1/6W		
C 661	QETC1HM-475Z	E. CAPACITOR	4.7MF 20% 50V		R 552	QRD167J-562	C. RESISTOR	5.6K 5% 1/6W		
C 662	QCVB1CM-472Y	C. CAPACITOR	4700PF 20% 16V		R 553	QRD161J-821	C. RESISTOR	820 5% 1/6W		
C 663	QCVB1CM-822Y	C. CAPACITOR	8200PF 20% 16V		R 555	QRD167J-332	C. RESISTOR	3.3K 5% 1/6W		
C 664	QCB81HK-820Y	C. CAPACITOR	82PF 10% 50V		R 559	QRD161J-125	C. RESISTOR	1.2M 5% 1/6W		
C 665	QETC1EM-3352M	E. CAPACITOR	3.3MF 20% 25V		R 561	QRD167J-562	C. RESISTOR	5.6K 5% 1/6W		
C 666	QCC11EM-123V	C. CAPACITOR	-0.12MF 20% 25V		R 562	QRD161J-102	C. RESISTOR	1.0K 5% 1/6W		
C 671	QETC1HM-475Z	E. CAPACITOR	4.7MF 20% 50V		R 563	QRD161J-152	C. RESISTOR	1.5K 5% 1/6W		
C 672	QCB1CM-472Y	C. CAPACITOR	4700PF 20% 16V		R 564	QRD167J-332	C. RESISTOR	3.3K 5% 1/6W		
C 673	QCVB1CM-822Y	C. CAPACITOR	8200PF 20% 16V		R 565	QRD161J-683	C. RESISTOR	68K 5% 1/6W		
C 674	QCB81HK-820Y	C. CAPACITOR	82PF 10% 50V		R 566	QRD161J-273	C. RESISTOR	27K 5% 1/6W		
C 675	QETC1EM-3352M	E. CAPACITOR	3.3MF 20% 25V		R 583	QRD161J-101	C. RESISTOR	100 5% 1/6W		
C 676	QCC11EM-123V	C. CAPACITOR	-0.12MF 20% 25V		R 591	QRD161J-473	C. RESISTOR	47K 5% 1/6W		
CN501	VMC0272-015	CONNECTOR	TO PICK UP		R 611	QRD161J-102	C. RESISTOR	1.0K 5% 1/6W		
CN601	VMC0163-011	CONNECTOR	TO CPU		R 612	QRD161J-103	C. RESISTOR	10K 5% 1/6W		

BLOCK NO. 04

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 613	QRD161J-224	C-RESISTOR	220K 5% 1/6W	
	R 614	QRD161J-473	C-RESISTOR	47K 5% 1/6W	
	R 615	QRD161J-225	C-RESISTOR	2.2M 5% 1/6W	
	R 616	QRD161J-333	C-RESISTOR	33K 5% 1/6W	
	R 631	QRD161J-820	C-RESISTOR	82 5% 1/6W	
	R 638	QRD161J-331	C-RESISTOR	330 5% 1/6W	
	R 639	QRD161J-102	C-RESISTOR	1.0K 5% 1/6W	
	R 651	QRD161J-820	C-RESISTOR	82 5% 1/6W	
	R 652	QRD161J-473	C-RESISTOR	47K 5% 1/6W	
	R 653	QRD161J-473	C-RESISTOR	47K 5% 1/6W	
	R 661	QRD161J-472	C-RESISTOR	4.7K 5% 1/6W	
	R 662	QRD167J-562	C-RESISTOR	5.6K 5% 1/6W	
	R 663	QRD161J-103	C-RESISTOR	10K 5% 1/6W	
	R 664	QRD161J-103	C-RESISTOR	10K 5% 1/6W	
	R 665	QRD167J-332	C-RESISTOR	3.3K 5% 1/6W	
	R 667	QRD161J-122	C-RESISTOR	1.2K 5% 1/6W	
	R 671	QRD161J-472	C-RESISTOR	4.7K 5% 1/6W	
	R 672	QRD167J-562	C-RESISTOR	5.6K 5% 1/6W	
	R 673	QRD161J-103	C-RESISTOR	10K 5% 1/6W	
	R 674	QRD161J-103	C-RESISTOR	10K 5% 1/6W	
	R 675	QRD167J-332	C-RESISTOR	3.3K 5% 1/6W	
	R 677	QRD161J-122	C-RESISTOR	1.2K 5% 1/6W	
	VR501	QVZ3523-154Z	V RESISTOR	TR OFFSET ADJ.	
	X 601	CSAB.46MT	CERAMIC RESONAT		

● System Micro Computer P.C. Board

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 801	QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 802	QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 803	QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V	
C 804	QCT30CH-100Y	C.CAPACITOR	10PF 5% 50V	
C 805	QCS31HJ-560Z	C.CAPA I.M	56PF 5% 50V	
C 806	QCS31HJ-680Z	C.CAPACITOR	68PF 5% 50V	
C 807	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
C 808	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
C 809	QCVB1CM-103Y	C.CAPACITOR	010MF 20% 16V	
C 810	QFV41HJ-104ZM	TF.CAPACITOR	10MF 5% 50V	
C 811	QCB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 812	QCB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
C 813	QCB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
C 814	QEK60JM-227ZM	E.CAPACITOR	220MF 20% 6.3V	
C 815	QCVB1CM-103Y	C.CAPACITOR	010MF 20% 16V	
C 816	QCVB1CM-103Y	C.CAPACITOR	010MF 20% 16V	
C 817	QCB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
C 818	QER60JM-107Z	E.CAPACITOR	100MF 20% 6.3V	
C 871	QCB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
C 872	QCV41HK-102	C.CAPACITOR	1000PF 10% 50V	
C 881	QEK61CM-106Z	E.CAPACITOR	10MF 20% 16V	
C 883	QEK61HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
C 885	QEK61HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
C 886	QCB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
C 887	QEK61HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
C 888	QCSB1HJ-560Y	C.CAPACITOR	56PF 5% 50V	
C 889	QCSB1HJ-560Y	C.CAPACITOR	56PF 5% 50V	
C 890	QCB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
CA801	VCRO024-001	C.NETWORK		
CN801	VMCO192-P08	CONNECTOR	MAIN	
CN802	VMCO192-P07	CONNECTOR	MAIN	
CN803	VMCO192-P09	CONNECTOR	MAIN	
CN804	VMCO192-P06	CONNECTOR	MAIN	
CN805	VMCO163-R11	CONNECTOR	# 17001 --	
CN806	VMCO308-R02	CONNECTOR		
D 801	MT73-9JB	Z.DIODE I.M		
D 805	MA7000A	S.B. DIODE		
D 806	1SS133	DIODE I/M		
D 807	1SS133	DIODE I/M		
D 808	1SS133	DIODE I/M		
D 853	1SS133	DIODE I/M		
D 871	SLR-305VCA47	LED		
FW806	EWB32D-14SJ	FLAT WIRE		
IC801	UPD75336GC-074		U-COM	
IC802	PST529H-T	IC		
L 801	VQP0028-100Z	INDUCTOR		
L 804	VQP0018-4R7	INDUCTOR		
L 806	VQP0018-4R7	INDUCTOR		
LCDB1	FMGL0001-001	LCD		
Q 801	2SA1175	TRANSISTOR I/M		
Q 802	2SA1175	TRANSISTOR I/M		
Q 803	2SC2785	TRANSISTOR I/M		
Q 804	BA1A4P	DIGITAL TRANSI.		
Q 805	BN1L4M	DIGITAL TRANSI.		
Q 806	BN1L4M	DIGITAL TRANSI.		

BLOCK NO. 02				
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q 807	BN1L4M	DIGITAL TRANSI.		
Q 810	BN1L4M	DIGITAL TRANSI.		
Q 871	BA1A4Z-T	DIGITAL TRANSI.		
R 801	QRD161J-681	C.RESISTOR	680 5% 1/6W	
R 802	QRD161J-681	C.RESISTOR	680 5% 1/6W	
R 803	QRD161J-224	C.RESISTOR	220K 5% 1/6W	
R 804	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 805	QRD161J-114	C.RESISTOR	110K 5% 1/6W	
R 806	QRD161J-114	C.RESISTOR	110K 5% 1/6W	
R 807	QRD161J-682	C.RESISTOR	6.8K 5% 1/6W	
R 808	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 809	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 810	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 811	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 812	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 813	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 814	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 815	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 816	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 818	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 819	QRD161J-221	C.RESISTOR	220 5% 1/6W	
R 821	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 823	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 824	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 825	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 826	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 827	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 828	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 829	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 830	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 831	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 832	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 833	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 834	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 835	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 836	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 837	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 838	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 839	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 840	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 841	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 842	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 843	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 844	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 845	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 846	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 847	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 848	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 849	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 850	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 851	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 852	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 854	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 855	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R 856	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	

BLOCK NO. 02					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
R 857	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W		
R 858	QRD161J-103	C.RESISTOR	10K 5% 1/6W		
R 859	QRD161J-104	C.RESISTOR	100K 5% 1/6W		
R 860	QRD161J-104	C.RESISTOR	100K 5% 1/6W		
R 861	QRD161J-104	C.RESISTOR	100K 5% 1/6W		
R 862	QRD161J-103	C.RESISTOR	10K 5% 1/6W		
R 863	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W		
R 864	QRD161J-103	C.RESISTOR	10K 5% 1/6W		
R 865	QRD161J-223	C.RESISTOR	22K 5% 1/6W		
R 866	QRD161J-224	C.RESISTOR	220K 5% 1/6W		
R 867	QRD161J-434VT	C.RESISTOR	430K 5% 1/6W		
R 868	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
R 869	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
R 870	QRD161J-104	C.RESISTOR	100K 5% 1/6W		
R 871	QRD161J-104	C.RESISTOR	100K 5% 1/6W		
R 872	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
R 873	QRD161J-333	C.RESISTOR	33K 5% 1/6W		
R 874	QRD161J-224	C.RESISTOR	220K 5% 1/6W		
R 875	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W		
R 876	QRD161J-471	C.RESISTOR	470 5% 1/6W		
R 877	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
R 878	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W		
R 881	QRD161J-393	C.RESISTOR	39K 5% 1/6W		
R 882	QRD161J-123	C.RESISTOR	12K 5% 1/6W		
R 883	QRD167J-682	C.RESISTOR	6.8K 5% 1/6W		
R 884	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W		
R 885	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W		
R 886	QRD161J-182	C.RESISTOR	1.8K 5% 1/6W		
R 887	QRD161J-152	C.RESISTOR	1.5K 5% 1/6W		
R 888	QRD161J-474	C.RESISTOR	470K 5% 1/6W		
R 889	QRD161J-224	C.RESISTOR	220K 5% 1/6W		
R 890	QRD161J-152	C.RESISTOR	1.5K 5% 1/6W		
R 891	QRD161J-182	C.RESISTOR	1.8K 5% 1/6W		
R 892	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W		
R 893	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W		
R 894	QRD167J-682	C.RESISTOR	6.8K 5% 1/6W		
R 895	QRD161J-123	C.RESISTOR	12K 5% 1/6W		
R 896	QRD161J-393	C.RESISTOR	39K 5% 1/6W		
R 897	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W		
R 898	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W		
RM 01	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
RM 02	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
RM 05	QRD161J-223	C.RESISTOR	22K 5% 1/6W		
RM 06	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W		
RM 07	QRD161J-473	C.RESISTOR	47K 5% 1/6W		
S 801	QSQ4H11-V02Z	TACT SW.	VOL DOWN		
S 802	QSQ4H11-V02Z	TACT SW.	VOL UP		
S 803	QSQ4H11-V02Z	TACT SW.	AHB		
S 804	QSQ4H11-V02Z	TACT SW.	PLAY		
S 805	QSQ4H11-V02Z	TACT SW.	STOP		
S 806	QSQ4H11-V02Z	TACT SW.	REPEAT		
S 807	QSQ4H11-V02Z	TACT SW.	REW		
S 808	QSQ4H11-V02Z	TACT SW.	FWD		
S 809	QSQ4H11-V02Z	TACT SW.	MEMORY/CALL		
S 810	QSQ4H11-V02Z	TACT SW.	PRESET TUNNING		

BLOCK NO. 02					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	
S 811	QSQ4H11-V02Z	TACT SW.	MEMORY BAND		
S 812	QSQ4H11-V02Z	TACT SW.	TU UP		
S 813	QSQ4H11-V02Z	TACT SW.	TU DOWN		
S 814	QSQ4H11-V02Z	TACT SW.	TAPE SELECT		
S 815	QSQ4H11-V02Z	TACT SW.	DUBBING SPEED		
S 816	QSQ4H11-V02Z	TACT SW.	POWER		
S 817	QSQ4H11-V02Z	TACT SW.			
S 818	QSQ4H11-V02Z	TACT SW.			
S 821	VSH1153-001	SWITCH			
X 801	CSA4.19MG933	CERA LOCK			
X 802	VCX5000-002	CRYSTAL			

● Main P.C. Board

BLOCK NO. 03				BLOCK NO. 03			
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME
A BP 01	VBP4M38-005	BP FILTER			A C 070	QETC1HM-225ZN	E. CAPACITOR
C 001	QCT30CH-200Y	C. CAPACITOR	20PF 5% 50V		C 071	QETC1HM-335Z	E. CAPACITOR
C 002	QCB1HK-102Y	C. CAPACITOR	1000PF 10% 50V		C 101	QETC1AM-476Z	E. CAPACITOR
C 003	QCSB1HJ-130Y	C. CAPACITOR	13PF 5% 50V		C 102	QCB1HK-561Y	E. CAPACITOR
C 004	QCS1HJ-100	C. CAPACITOR	10PF 5% 50V		C 103	QETC1AM-227Y	E. CAPACITOR
C 005	QCT30UJ-180Y	C. CAPACITOR	18PF 5% 50V		C 104	QCT1EM-104V	E. CAPACITOR
C 006	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 105	QETB1CM-228	E. CAPACITOR
C 007	QCT30CH-200Y	C. CAPACITOR	20PF 5% 50V		C 106	QFL1HJ-123ZM	M. CAPA I.M
C 008	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 121	QETC1HM-105Z	E. CAPACITOR
C 009	QCT30UJ-100Y	C. CAPACITOR	10PF 5% 50V		C 122	QFV1HJ-104AZM	TF CAPACITOR
C 010	QCSB1HK-2R2Y	C. CAPACITOR	2.2PF 10% 50V		C 123	QFV1HJ-104AZM	TF CAPACITOR
C 011	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 141	QETC1HM-335ZN	E. CAPACITOR
C 012	QCB1HK-151Y	C. CAPACITOR	150PF 10% 50V		C 142	QCS31HJ-470Z	E. CAPACITOR
C 013	QCC11EM-223V	C. CAPACITOR	.022MF 20% 25V		C 144	QETC1HM-225ZN	E. CAPACITOR
C 014	QCB1HK-102Y	C. CAPACITOR	1000PF 10% 50V		C 151	QCB1CM-472Y	E. CAPACITOR
C 015	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 152	QCSB1HJ-560Y	C. CAPACITOR
C 016	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 161	QEK61HM-475Z	E. CAPACITOR
C 018	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 191	QETC1HM-224Z	E. CAPACITOR
C 019	QCB1HK-102Y	C. CAPACITOR	1000PF 10% 50V		C 192	QETC1EM-475ZM	E. CAPACITOR
C 021	QCC11EM-473V	C. CAPACITOR	.047MF 20% 25V		C 201	QETC1AM-476Z	E. CAPACITOR
C 022	QFP31HG-431ZM	PS. CAPACITOR	430PF 2% 50V		C 202	QCB1HK-561Y	E. CAPACITOR
C 023	QCT30CH-120Y	C. CAPACITOR	12PF 5% 50V		C 203	QETC1AM-227Z	E. CAPACITOR
C 030	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 204	QCC11EM-104V	E. CAPACITOR
C 031	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 205	QETC1CM-228	E. CAPACITOR
C 032	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 206	QFL1HJ-123ZM	M. CAPA I.M
C 033	QETC1AM-107ZN	E. CAPACITOR	100MF 20% 10V		C 221	QEK61HM-105Z	E. CAPACITOR
C 034	QCC11EM-223V	C. CAPACITOR	.022MF 20% 25V		C 222	QFV1HJ-104AZM	TF CAPACITOR
C 035	QCC11EM-473V	C. CAPACITOR	.047MF 20% 25V		C 223	QFV1HJ-104AZM	TF CAPACITOR
C 036	QETC1HM-475Z	E. CAPACITOR	4.7MF 20% 50V		C 241	QEK61HM-335ZN	E. CAPACITOR
C 037	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 242	QCS31HJ-470Z	E. CAPACITOR
C 038	QCB1HK-102Y	C. CAPACITOR	1000PF 10% 50V		C 251	QETC1HM-225ZN	E. CAPACITOR
C 039	QCC11EM-473V	C. CAPACITOR	.047MF 20% 25V		C 252	QCB1CM-472Y	E. CAPACITOR
C 040	QETC1HM-335Z	E. CAPACITOR	3.3MF 20% 50V		C 261	QEK61HM-475Z	E. CAPACITOR
C 041	QETC1CM-106Z	E. CAPACITOR	10MF 20% 16V		C 291	QETC1HM-224Z	E. CAPACITOR
C 042	QCB1CM-152Y	C. CAPACITOR	1500PF 20% 16V		C 292	QETC1EM-475ZM	E. CAPACITOR
C 043	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 301	QETB1EM-478E	E. CAPACITOR
C 044	QETC1HM-104Z	E. CAPACITOR	.10MF 20% 50V		C 302	QETC1CM-227	E. CAPACITOR
C 045	QETC1HM-474Z	E. CAPACITOR	.47MF 20% 50V		C 303	QETC1CM-107	E. CAPACITOR
C 046	QETC1CM-106Z	E. CAPACITOR	10MF 20% 16V		C 321	QETC1AM-107ZN	E. CAPACITOR
C 047	QCC11EM-103V	C. CAPACITOR	.010MF 20% 25V		C 322	QETC1CM-476Z	E. CAPACITOR
C 048	QCC11EM-103V	C. CAPACITOR	.010MF 20% 25V		C 341	QEK41CM-476	E. CAPACITOR
C 049	QETC1HM-105Z	E. CAPACITOR	1.0MF 20% 50V		C 342	QERS1AM-227	E. CAPACITOR
C 050	QETC1HM-105Z	E. CAPACITOR	1.0MF 20% 50V		C 353	QETC1AM-475Z	E. CAPACITOR
C 053	QCT30CH-150Y	C. CAPACITOR	15PF 5% 50V		C 354	QCB1HK-151Y	E. CAPACITOR
C 056	QCB1CN-103Y	C. CAPACITOR	.010MF 30% 16V		C 360	QETB1CM-477M	E. CAPACITOR
C 059	QCB1HK-102Y	C. CAPACITOR	1000PF 10% 50V		C 361	QFL1HJ-822	M. CAPACITOR
C 060	QCB1HK-102Y	C. CAPACITOR	1000PF 10% 50V		C 362	QFL1HJ-822	M. CAPACITOR
C 061	QETC1AM-107ZN	E. CAPACITOR	100MF 20% 10V		C 363	QFV71HJ-334ZM	TF CAPACITOR
C 062	QCS1HJ-100	C. CAPACITOR	10PF 5% 50V		C 364	QFV71HJ-334ZM	TF CAPACITOR
C 063	QCC11EM-473V	C. CAPACITOR	.047MF 20% 25V		C 365	QEK51HM-106	E. CAPACITOR
C 064	QCSB1HJ-270Y	C. CAPACITOR	27PF 5% 50V		C 366	QEK51HM-106	E. CAPACITOR
C 066	QCB1HK-151Y	C. CAPACITOR	150PF 10% 50V		C 367	QETC1HM-476ZM	E. CAPACITOR
C 067	QCB1HK-101Y	C. CAPACITOR	100PF 10% 50V		C 368	QEK61HM-105Z	E. CAPACITOR
C 068	QCB1HK-101Y	C. CAPACITOR	100PF 10% 50V		C 369	QEK61HM-105Z	E. CAPACITOR
C 069	QCB1CM-222Y	C. CAPACITOR	2200PF 20% 16V				

BLOCK NO. 03

BLOCK NO. 03				BLOCK NO. 03			
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME
C 070	QETC1HM-225ZN	E. CAPACITOR	2.2MF 20% 50V		C 071	QETC1HM-335Z	E. CAPACITOR
C 101	QETC1AM-476Z	E. CAPACITOR	47MF 20% 10V		C 102	QCB1HK-561Y	E. CAPACITOR
C 103	QETC1AM-227Y	E. CAPACITOR	560PF 10% 50V		C 104	QCT1EM-104V	E. CAPACITOR
C 105	QETB1CM-228	E. CAPACITOR	10MF 20% 25V		C 106	QFL1HJ-123ZM	M. CAPA I.M
C 121	QETC1HM-105Z	E. CAPACITOR	.012MF 5% 50V		C 122	QFV1HJ-104AZM	TF CAPACITOR
C 123	QFV1HJ-104AZM	TF CAPACITOR	.10MF 5% 50V		C 141	QETC1HM-335ZN	E. CAPACITOR
C 142	QCS31HJ-470Z	E. CAPACITOR	3.3MF 20% 50V		C 144	QETC1HM-225ZN	E. CAPACITOR
C 151	QCB1CM-472Y	E. CAPACITOR	2.2MF 20% 50V		C 152	QCSB1HJ-560Y	C. CAPACITOR
C 161	QEK61HM-475Z	E. CAPACITOR	4700PF 20% 16V		C 191	QETC1HM-224Z	E. CAPACITOR
C 192	QETC1EM-475ZM	E. CAPACITOR	4.7MF 20% 25V		C 201	QETC1AM-476Z	E. CAPACITOR
C 202	QCB1HK-561Y	E. CAPACITOR	560PF 10% 50V		C 203	QETC1AM-227Z	E. CAPACITOR
C 204	QCC11EM-104V	E. CAPACITOR	220MF 20% 10V		C 205	QETC1CM-228	E. CAPACITOR
C 206	QFL1HJ-123ZM	M. CAPA I.M	.012MF 5% 50V		C 221	QEK61HM-105Z	E. CAPACITOR
C 222	QFV1HJ-104AZM	TF CAPACITOR	1.0MF 5% 50V		C 223	QFV1HJ-104AZM	TF CAPACITOR
C 241	QEK61HM-335ZN	E. CAPACITOR	10MF 5% 50V		C 242	QCS31HJ-470Z	E. CAPACITOR
C 251	QETC1HM-225ZN	E. CAPACITOR	3.3MF 20% 50V		C 252	QCB1CM-472Y	E. CAPACITOR
C 261	QEK61HM-475Z	E. CAPACITOR	4.7MF 20% 50V		C 291	QETC1HM-224Z	E. CAPACITOR
C 292	QETC1EM-475ZM	E. CAPACITOR	.22MF 20% 50V		C 301	QETB1EM-478E	E. CAPACITOR
C 302	QETC1CM-227	E. CAPACITOR	4700MF 20% 25V		C 303	QETC1CM-107	E. CAPACITOR
C 321	QETC1AM-107ZN	E. CAPACITOR	220MF 20% 16V		C 322	QETC1CM-476Z	E. CAPACITOR
C 341	QEK41CM-476	E. CAPACITOR	100MF 20% 10V		C 342	QERS1AM-227	E. CAPACITOR
C 353	QETC1AM-475Z	E. CAPACITOR	4.7MF 20% 50V		C 354	QCB1HK-151Y	E. CAPACITOR
C 360	QETB1CM-477M	E. CAPACITOR	150PF 10% 50V		C 361	QFL1HJ-822	M. CAPACITOR
C 362	QFL1HJ-822	M. CAPACITOR	470MF 20% 16V		C 363	QFV71HJ-334ZM	TF CAPACITOR
C 364	QFV71HJ-334ZM	TF CAPACITOR	8200PF 5% 50V		C 365	QEK51HM-106	E. CAPACITOR
C 366	QEK51HM-106	E. CAPACITOR	.33MF 5% 50V		C 367	QETC1HM-476ZM	E. CAPACITOR
C 368	QEK61HM-105Z	E. CAPACITOR	1.0MF 20% 50V		C 369	QEK61HM-105Z	E. CAPACITOR

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 370	QEC1HM-474Z	E. CAPACITOR	4.7MF 20% 50V	
C 371	QEC61HM-225ZM	E. CAPACITOR	2.2MF 20% 50V	
C 381	QETC1HM-105Z	E. CAPACITOR	1.0MF 20% 50V	
C 386	QETC1AM-107ZM	E. CAPACITOR	100PF 20% 10V	
C 392	QETC1HM-225ZM	E. CAPACITOR	2.2MF 20% 50V	
C 901	QETC1AM-107ZM	E. CAPACITOR	100MF 20% 10V	
C 902	QCVB1CN-103Y	C. CAPACITOR	0.01MF 30% 16V	
C 903	QCVB1CM-22Y	C. CAPACITOR	2200PF 20% 16V	
C 904	QCC11EM-104V	C. CAPACITOR	10MF 20% 25V	
C 911	QETC1AM-227Z	E. CAPACITOR	22MF 20% 10V	
C 921	QETC1AM-226ZM	E. CAPACITOR	22MF 20% 10V	
C 922	QCVB1CN-103Y	C. CAPACITOR	0.01MF 30% 16V	
C 923	QCVB1HK-331Y	C. CAPACITOR	330PF 10% 50V	
C 924	QFV71HJ-683ZM	TF. CAPACITOR	0.068MF 5% 50V	
C 925	QFV11HJ-224ZM	TF. CAPACITOR	22MF 5% 50V	
C 931	QCVB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
C 932	QETC1AM-107Z	E. CAPACITOR	100MF 20% 25V	
C 991	QCVB1CN-103Y	C. CAPACITOR	0.01MF 30% 16V	
C 996	QCF31HP-223Z	C. CAPACITOR	0.022MF +100% -0%	
C 997	QCF31HP-223Z	C. CAPACITOR	0.022MF +100% -0%	
C 998	QCF31HP-223Z	C. CAPACITOR	0.022MF +100% -0%	
C 999	QCF31HP-223Z	C. CAPACITOR	0.022MF +100% -0%	
CA101	QCVB1HK-561Y	C. CAPACITOR	560PF 10% 50V	
CA102	QCVB1HK-561Y	C. CAPACITOR	560PF 10% 50V	
CA103	QCVB1HK-561Y	C. CAPACITOR	560PF 10% 50V	
CA104	QFV11HJ-223Z	M. CAPACITOR	0.012MF 5% 50V	
CA105	QEC61HM-105Z	E. CAPACITOR	1.0MF 20% 50V	
CA106	QCVB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
CA107	QFV11HJ-183ZM	M. CAPACITOR	0.018MF 5% 50V	
CA121	QETC1HM-335Z	E. CAPACITOR	3.3MF 20% 50V	
CA126	QCVB1HK-220Y	C. CAPACITOR	22PF 5% 50V	
CA127	QETC1AM-226ZM	E. CAPACITOR	22MF 20% 10V	
CA128	QCVB1CM-682Y	C. CAPACITOR	6800PF 20% 16V	
CA129	QFV11HJ-333ZM	M. CAPACITOR	0.033MF 5% 50V	
CA130	QFV11HJ-333ZM	M. CAPACITOR	0.033MF 5% 50V	
CA131	QFV11HJ-333ZM	M. CAPACITOR	0.033MF 5% 50V	
CA132	QETC1HM-475Z	E. CAPACITOR	4.7MF 20% 50V	
CA133	QCVB1HK-221Y	C. CAPACITOR	220PF 10% 50V	
CA134	QFV11HJ-123Z	M. CAPACITOR	0.012MF 5% 50V	
CA141	QCVB1HK-331Y	C. CAPACITOR	330PF 10% 50V	
CA201	QCVB1HK-561Y	C. CAPACITOR	560PF 10% 50V	
CA202	QCVB1HK-561Y	C. CAPACITOR	560PF 10% 50V	
CA203	QEC61AM-107Z	E. CAPACITOR	100MF 20% 10V	
CA204	QFV11HJ-123Z	M. CAPACITOR	0.012MF 5% 50V	
CA205	QEC61HM-105Z	E. CAPACITOR	1.0MF 20% 50V	
CA206	QCVB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
CA207	QFV11HJ-183ZM	M. CAPACITOR	0.018MF 5% 50V	
CA221	QETC1HM-335Z	E. CAPACITOR	3.3MF 20% 50V	
CA226	QCVB1HK-220Y	C. CAPACITOR	22PF 5% 50V	
CA227	QETC1AM-226ZM	E. CAPACITOR	22MF 20% 10V	
CA228	QCVB1CM-682Y	C. CAPACITOR	6800PF 20% 16V	
CA229	QFV11HJ-333ZM	M. CAPACITOR	0.033MF 5% 50V	
CA230	QFV11HJ-123Z	M. CAPACITOR	0.012MF 5% 50V	
CA231	QFV11HJ-104ZM	M. CAPACITOR	0.010MF 5% 50V	
CA232	QETC1HM-475Z	E. CAPACITOR	4.7MF 20% 50V	

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CA233	QCVB1HK-221Y	C. CAPACITOR	220PF 10% 50V	
CA234	QFV11HJ-123Z	M. CAPACITOR	0.012MF 5% 50V	
CA241	QCVB1HK-331Y	C. CAPACITOR	330PF 10% 50V	
CA301	QEC61AM-107Z	E. CAPACITOR	100MF 20% 10V	
CA302	QEC61AM-107Z	E. CAPACITOR	100MF 20% 10V	
CA304	QETC1HM-475Z	E. CAPACITOR	4.7MF 20% 50V	
CA305	QEC61HM-475Z	E. CAPACITOR	4.7MF 20% 50V	
CA315	QETC1CM-106Z	E. CAPACITOR	10MF 20% 16V	
CA321	QETC1AM-476Z	E. CAPACITOR	47MF 20% 10V	
CA322	QETC1AM-476Z	E. CAPACITOR	47MF 20% 10V	
CA323	QETC1AM-226ZM	E. CAPACITOR	22MF 20% 10V	
CA324	QCVB1CN-103Y	C. CAPACITOR	0.01MF 30% 16V	
CA341	QETC1CM-106Z	E. CAPACITOR	10MF 20% 16V	
CA342	QFV11HJ-473ZM	M. CAPACITOR	0.047MF 5% 50V	
CA343	QFV11HJ-103Z	M. CAPACITOR	0.010MF 5% 50V	
CA344	QETC1HM-104Z	E. CAPACITOR	0.010MF 5% 50V	
CA345	QFV11HJ-392ZM	PP. CAPACITOR	3900PF 5% 100V	
CA346	QFV11HJ-821	PP. CAPACITOR	820PF 5% 50V	
CA347	QFV11HJ-361	PP. CAPACITOR	360PF 5% 50V	
CA348	QCC31EM-393ZV	C. CAPACITOR	0.039MF 20% 25V	
CA349	QCVB1CN-103Y	C. CAPACITOR	0.010MF 30% 16V	
CF 01	VCFL3B-105	C. FILTER		
CF 02	VCFL3B-105	C. FILTER		
CF 03	VCFL3B-105Z	C. FILTER		
CF 04	CSB436F18	CERA LOCK		
CNA31	VMC0040-003	CONNECTOR IM		
CNA32	VMC0040-005	CONNECTOR		
CNA35	VMC0075-010N	CONNECTOR		
CNA36	VMC0166-004Z	CONNECTOR		
CN301	VMC0238-004Z	CONNECTOR		
CN302	VMC0107-005	SOCKET		
CN303	VMC0192-008	CONNECTOR		
CN304	VMC0192-007	CONNECTOR		
CN305	VMC0192-009	CONNECTOR		
CN306	VMC0192-006	CONNECTOR		
CT014	QCVB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
CT015	QCVB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
CT017	QCVB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
CT019	QCVB1HK-151Y	C. CAPACITOR	150PF 10% 50V	
D 001	KV1350NT	VARI. CAP		
D 002	KV1350NT	VARI. CAP		
D 003	KV1350NT	VARI. CAP		
D 004	KV1350NT	VARI. CAP		
D 005	1S8133	DIODE I/M		
D 006	1S8133	DIODE I/M		
D 007	1S8133	DIODE I/M		
D 008	KV1550NTA	VARI. CAP		
D 009	KV1550NTA	VARI. CAP		
D 012	DSK10C-E	DIODE		
D 013	DSK10C-E	DIODE		
D 383	MT75.1JB	Z. DIODE I.M.		
D 384	1S8133	DIODE I/M		
D 385	1S8133	DIODE I/M		
D 386	1S8133	DIODE I/M		
D 391	1S8133	DIODE I/M		

BLOCK NO. 03

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 392	1SS133	DIODE I/M		
	D 901	MA4075(M)	Z DIODE I/M		
	D 902	1SS133	DIODE I/M		
	D 903	1SS133	DIODE I/M		
	D 911	DSK10C-E	DIODE		
	D 921	RD5-6J5AB1	Z DIODE		
	D 922	1SS133	DIODE I/M		
	D 991	1SS133	DIODE I/M		
	D 996	1N5401M	DIODE		
	D 997	1N5401M	DIODE		
	D 998	1N5401M	DIODE		
	D 999	1N5401M	DIODE		
	DA121	1SS133	DIODE I/M		
	DA122	1SS133	DIODE I/M		
	DA221	1SS133	DIODE I/M		
	DA222	1SS133	DIODE I/M		
	IC 01	TA7358P(N)	I.C.		
	IC 02	TA8132AN	IC		
	IC 03	TC9216P	IC		
	ICA31	LA3246	I.C.		
	ICA32	LA3220	I.C.		
	ICA33	BA3126N	I.C.		
	IC101	TA8229K	IC		
	IC321	NJM4580L	IC		
	IC341	NJM4580L	IC		
	IC361	TA8184P	I.C.		
	J 301	VMJ4024-001	JACK		
	J 302	EMB90YV-401A	SPK. TERMINAL		
	J 999	QMCB251-V01	AC SOCKET		
	L 001	VQF1B20-017	OSC COIL	FM OSC	
	L 002	VQF1B12-004	RF COIL	FM RF	
	L 003	FMQB08M-501	BAR ANTENNA	MW RF	
	L 004	VQM7U02-404	OSC COIL (MW)	MW OSC	
	L 007	VQP0018-4R7	INDUCTOR		
	L 008	VQP0018-221	INDUCTOR		
	L 012	VQ3047-17	INDUCTOR	RF COIL	
	L 351	VQ20048-009	INDUCTOR		
	LA341	VGH1009-026	OSC COIL (BIAS)		
	Q 001	2SC1923	TRANSISTOR I/M		
	Q 007	2SC1923	TRANSISTOR I/M		
	Q 008	BA1A4P	DIGITAL TRANSI.		
	Q 009	BN1A4P	DIGITAL TRANSI.		
	Q 010	BN1A4P	DIGITAL TRANSI.		
	Q 011	BN1A4P	DIGITAL TRANSI.		
	Q 012	2SC2785	TRANSISTOR I/M		
	Q 013	2SC2785	TRANSISTOR I/M		
	Q 153	2SC2001(L,K)	TRANSISTOR I/M		
	Q 181	2SC2001(L,K)	TRANSISTOR		
	Q 191	2SC2001(L,K)	TRANSISTOR		
	Q 253	2SC2001(L,K)	TRANSISTOR I/M		
	Q 281	2SC2001(L,K)	TRANSISTOR		
	Q 291	2SC2001(L,K)	TRANSISTOR		
	Q 381	2SA1175	DIGITAL TRANSI.		
	Q 382	BA1A4P	DIGITAL TRANSI.		
	Q 383	2SC2785	TRANSISTOR I/M		

BLOCK NO. 03

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 391	BA1A4P	DIGITAL TRANSI.		
	Q 901	2SB772(Q,P)	TRANSISTOR		
	Q 902	2SC2785	TRANSISTOR I/M		
	Q 903	2SC2785	TRANSISTOR I/M		
	Q 904	2SC2785	TRANSISTOR I/M		
	Q 911	2SA952(L,K)	TRANSISTOR I/M		
	Q 921	2SB1274(R,S)	TRANSISTOR		
	Q 922	2SC2785	TRANSISTOR I/M		
	Q 923	2SC2785	TRANSISTOR I/M		
	Q 931	2SB562(C)	TRANSISTOR		
	Q 932	2SC2785	TRANSISTOR I/M		
	Q 941	2SA952(L,K)	TRANSISTOR I/M		
	Q 991	BN1L4M	DIGITAL TRANSI.		
	QA121	2SC2785	TRANSISTOR I/M		
	QA122	2SC2785	TRANSISTOR I/M		
	QA221	2SC2785	TRANSISTOR I/M		
	QA222	2SC2785	TRANSISTOR I/M		
	QA321	BA1A4P	DIGITAL TRANSI.		
	QA341	2SC945L(P,Q)	TRANSISTOR		
	QA342	2SC2001(L,K)	TRANSISTOR I/M		
	QA343	2SC2785	TRANSISTOR I/M		
	QA344	2SC2785	TRANSISTOR I/M		
	QA345	2SC2785	TRANSISTOR I/M		
	QA347	BA1A4P	DIGITAL TRANSI.		
	QA351	BA1L4M	DIGITAL TRANSI.		
	QA352	2SC2785	TRANSISTOR I/M		
	QA361	2SA1175	TRANSISTOR I/M		
	QA362	BA1A4P	DIGITAL TRANSI.		
	R 001	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 002	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 003	QRD167J-4R7	C.RESISTOR	4.7 5% 1/6W	
	R 004	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 005	QRD161J-823	C.RESISTOR	82K 5% 1/6W	
	R 006	QRD161J-101	C.RESISTOR	100 5% 1/6W	
	R 008	QRD161J-101	C.RESISTOR	100 5% 1/6W	
	R 009	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 010	QRD161J-101	C.RESISTOR	100 5% 1/6W	
	R 013	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 018	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 020	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 023	QRD161J-564	C.RESISTOR	560K 5% 1/6W	
	R 024	QRD161J-331	C.RESISTOR	330 5% 1/6W	
	R 025	QRD161J-334	C.RESISTOR	330K 5% 1/6W	
	R 027	QRD161J-331	C.RESISTOR	330 5% 1/6W	
	R 029	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 030	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 031	QRD161J-563	C.RESISTOR	56K 5% 1/6W	
	R 032	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
	R 034	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
	R 035	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
	R 036	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 037	QRD161J-560	C.RESISTOR	56 5% 1/6W	
	R 040	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 041	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 042	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	

BLOCK NO. 03

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 043	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 044	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 047	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 048	QRD161J-331	C.RESISTOR	330 5% 1/6W	
	R 049	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 052	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
	R 053	QRD161J-471	C.RESISTOR	470 5% 1/6W	
	R 054	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 055	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 056	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
	R 057	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 058	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
	R 101	QRD161J-221	C.RESISTOR	220 5% 1/6W	
	R 102	QRD161J-2R2	C.RESISTOR	2.2 5% 1/6W	
	R 103	QRD161J-121	C.RESISTOR	120 5% 1/6W	
	R 104	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 121	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 122	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
	R 123	QRD161J-182	C.RESISTOR	1.8K 5% 1/6W	
	R 124	QRD161J-334	C.RESISTOR	330K 5% 1/6W	
	R 141	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 142	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 143	QRD161J-393	C.RESISTOR	39K 5% 1/6W	
	R 146	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 151	QRD161J-363	C.RESISTOR	36K 5% 1/6W	
	R 152	QRD161J-183	C.RESISTOR	18K 5% 1/6W	
	R 153	QRD161J-563	C.RESISTOR	56K 5% 1/6W	
	R 155	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
	R 157	QRD161J-682	C.RESISTOR	6.8K 5% 1/6W	
	R 158	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 181	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 191	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
	R 192	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 193	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 194	QRD161J-224	C.RESISTOR	220K 5% 1/6W	
	R 196	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 201	QRD161J-221	C.RESISTOR	220 5% 1/6W	
	R 202	QRD161J-2R2	C.RESISTOR	2.2 5% 1/6W	
	R 203	QRD161J-121	C.RESISTOR	120 5% 1/6W	
	R 204	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 221	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 222	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
	R 223	QRD161J-182	C.RESISTOR	1.8K 5% 1/6W	
	R 224	QRD161J-334	C.RESISTOR	330K 5% 1/6W	
	R 241	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 242	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 243	QRD161J-393	C.RESISTOR	39K 5% 1/6W	
	R 246	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 251	QRD161J-363	C.RESISTOR	36K 5% 1/6W	
	R 252	QRD161J-183	C.RESISTOR	18K 5% 1/6W	
	R 253	QRD161J-563	C.RESISTOR	56K 5% 1/6W	
	R 255	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
	R 257	QRD161J-682	C.RESISTOR	6.8K 5% 1/6W	
	R 258	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 281	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	

BLOCK NO. 03

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 291	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
	R 292	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 293	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 294	QRD161J-224	C.RESISTOR	220K 5% 1/6W	
	R 296	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 321	QRD161J-221	C.RESISTOR	220 5% 1/6W	
	R 322	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 323	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 341	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 342	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 343	QRD161J-221	C.RESISTOR	220 5% 1/6W	
	R 360	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
	R 361	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
	R 362	QRD161J-154	C.RESISTOR	150K 5% 1/6W	
	R 363	QRD161J-470	C.RESISTOR	47 5% 1/6W	
	R 364	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 365	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 366	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
	R 383	QRD161J-682	C.RESISTOR	6.8K 5% 1/6W	
	R 384	QRD161J-101	C.RESISTOR	100 5% 1/6W	
	R 385	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 386	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
	R 387	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 388	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	R 391	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 392	QRD161J-181	C.RESISTOR	180 5% 1/6W	
	R 393	QRD161J-474	C.RESISTOR	470K 5% 1/6W	
	R 901	QRD161J-471	C.RESISTOR	470 5% 1/6W	
	R 902	QRD161J-564	C.RESISTOR	560K 5% 1/6W	
	R 903	QRD161J-471	C.RESISTOR	470 5% 1/6W	
	R 904	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	R 905	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 906	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
	R 907	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 908	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 909	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	R 910	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	R 911	QRD161J-182	C.RESISTOR	1.8K 5% 1/6W	
	R 912	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
	R 921	QRD161J-271	C.RESISTOR	270 5% 1/6W	
	R 923	QRD161J-471	C.RESISTOR	470 5% 1/6W	
	R 924	QRD161J-224	C.RESISTOR	220K 5% 1/6W	
	R 925	QRD161J-224	C.RESISTOR	220K 5% 1/6W	
	R 926	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 927	QRD161J-822	C.RESISTOR	8.2K 5% 1/6W	
	R 928	QRD161J-822	C.RESISTOR	8.2K 5% 1/6W	
	R 931	QRD161J-391	C.RESISTOR	390 5% 1/6W	
	R 932	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	R 933	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W	
	R 934	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 941	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W	
	R 944	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	R 991	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
	RA103	QRD161J-560	C.RESISTOR	56 5% 1/6W	
	RA104	QRD161J-123	C.RESISTOR	12K 5% 1/6W	

BLOCK NO. 03

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	RA105	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
	RA106	QRD167J-562	C.RESISTOR	5.6K 5% 1/6W	
	RA107	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
	RA108	QRD161J-183	C.RESISTOR	18K 5% 1/6W	
	RA111	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
	RA121	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	RA122	QRD161J-823	C.RESISTOR	82K 5% 1/6W	
	RA123	QRD161J-681	C.RESISTOR	680 5% 1/6W	
	RA124	QRD161J-821	C.RESISTOR	820 5% 1/6W	
	RA125	QRD161J-560	C.RESISTOR	56 5% 1/6W	
	RA126	QRD161J-561	C.RESISTOR	560 5% 1/6W	
	RA127	QRD161J-820	C.RESISTOR	82 5% 1/6W	
	RA128	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
	RA129	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	RA130	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
	RA131	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W	
	RA132	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
	RA133	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	RA141	QRD167J-562	C.RESISTOR	5.6K 5% 1/6W	
	RA203	QRD161J-560	C.RESISTOR	56 5% 1/6W	
	RA204	QRD161J-123	C.RESISTOR	12K 5% 1/6W	
	RA205	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
	RA206	QRD167J-562	C.RESISTOR	5.6K 5% 1/6W	
	RA207	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
	RA208	QRD161J-183	C.RESISTOR	18K 5% 1/6W	
	RA211	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
	RA221	QRD161J-273	C.RESISTOR	27K 5% 1/6W	
	RA222	QRD161J-823	C.RESISTOR	82K 5% 1/6W	
	RA223	QRD161J-681	C.RESISTOR	680 5% 1/6W	
	RA224	QRD161J-821	C.RESISTOR	820 5% 1/6W	
	RA225	QRD161J-560	C.RESISTOR	56 5% 1/6W	
	RA226	QRD161J-561	C.RESISTOR	560 5% 1/6W	
	RA227	QRD161J-820	C.RESISTOR	82 5% 1/6W	
	RA228	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
	RA229	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	RA230	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
	RA231	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W	
	RA232	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
	RA233	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	RA241	QRD167J-562	C.RESISTOR	5.6K 5% 1/6W	
	RA301	QRD161J-331	C.RESISTOR	330 5% 1/6W	
	RA302	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	RA303	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
	RA305	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	RA306	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
	RA307	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
	RA315	QRD161J-221	C.RESISTOR	220 5% 1/6W	
	RA317	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W	
	RA321	QRD167J-121	C.RESISTOR	120 5% 1/6W	
	RA322	QRD161J-475	C.RESISTOR	4.7M 5% 1/6W	
	RA323	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	RA327	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	RA328	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	RA341	QRD14CJ-4705X	UNF. C.RESISTOR	47 5% 1/4W	
	RA342	QRD161J-101	C.RESISTOR	100 5% 1/6W	

BLOCK NO. 03

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	RA343	QRD161J-3R9	C.RESISTOR	3.9 5% 1/6W	
	RA344	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
	RA345	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	RA346	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
	RA347	QRD161J-123	C.RESISTOR	12K 5% 1/6W	
	RA348	QRD167J-332	C.RESISTOR	3.3K 5% 1/6W	
	RA350	QRD161J-182	C.RESISTOR	1.8K 5% 1/6W	
	RA351	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	RA352	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	RA353	QRD161J-394	C.RESISTOR	390K 5% 1/6W	
	RA354	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	RA361	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W	
	RA363	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	RE 3	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
	RT 01	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	RT 03	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
	RT 04	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	RT 05	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	RT 06	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
	RT 07	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
	T 001	VQ17E12-110	IFT COIL	FM IF	
	T 002	ECB1560-010	C.FILTER		
	TC 02	QAT3722-300ZM	T.CAPACITOR		
	TP 01	VM20015-002	POST PIN	TO ROD ANT	
	VRA41	QVZ3523-203AZ	V RESISTOR		
	VRA61	QVZ3523-102AZ	C RESISTOR		
	X 001	V472124-A0	CRYSTAL		

15. Illustration of Packing and Parts Listm

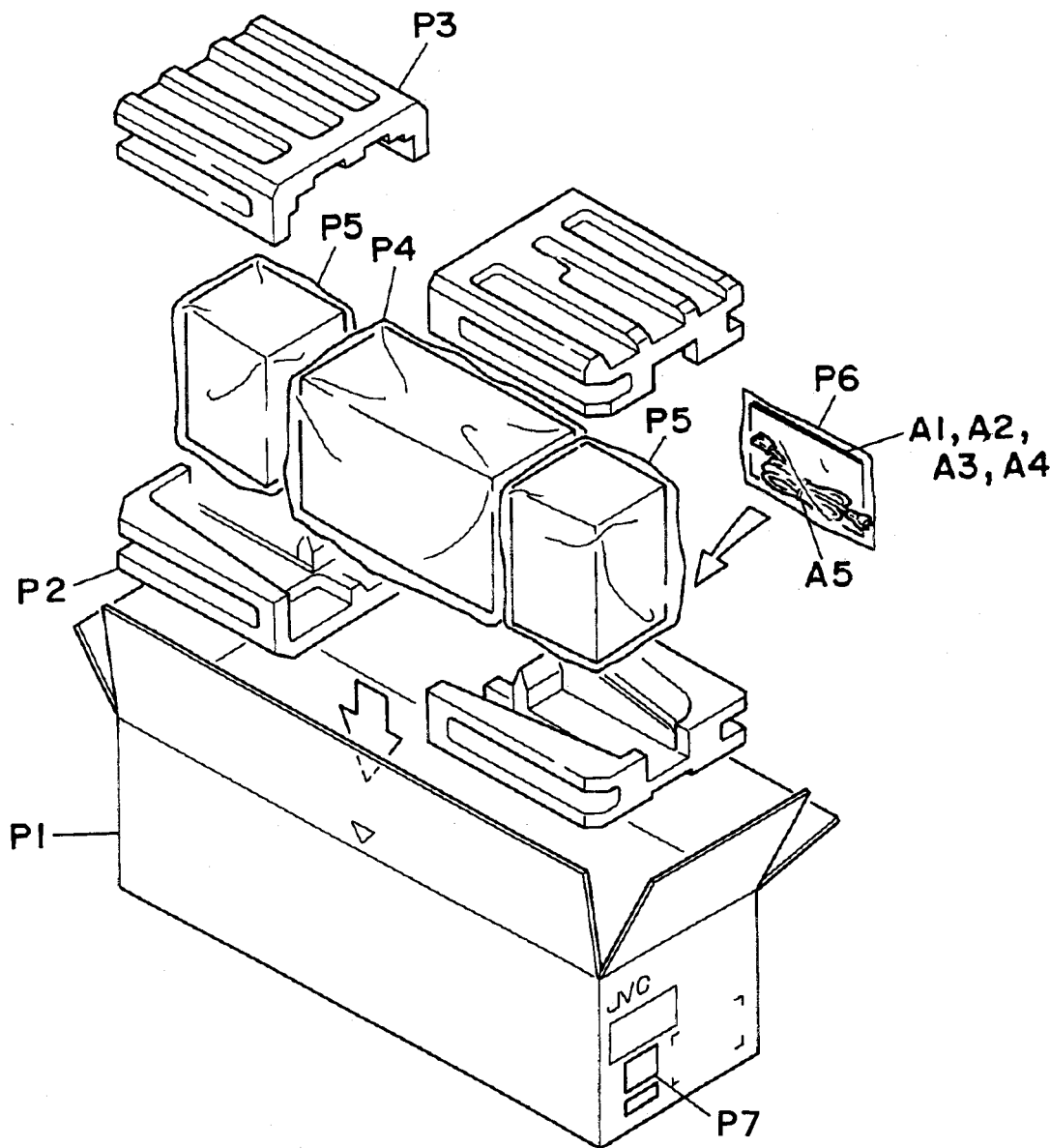


Fig. 15-1

■ Packing parts list

BLOCK NO. M5MM							
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P	1	FMPC7002-001	CARTON		1		
P	2	FMPH1004-001	BOTTOM CUSHION	L&R	1		
P	3	FMPH1003-001	UPPER CUSHION	L&R	1		
P	4	E300196-031B	POLY BAG	FOR RECEIVER	1		
P	5	VPE3020-018	POLY BAG	FOR SPEAKER	1		
P	6	E300196-033B	ENVELOPE	FOR INSTRUCTION	1		
P	7	*****	COMPUTER LABEL		2		

16. Accessories

BLOCK NO. M6MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A 1	FMUN7002-611M	INSTRUCTIONS		1		
A 2	BT-20047F	WARRANTY CARD		1	J	
	BT-20025L	WARRANTY CARD		1	C	
A 3	BT-20071B	SERVICE NETWORK		1	C	
	BT-20137	SERVICE NETWORK		1	J	
A 4	BT-20044G	SAFETY INST.		1	J	
A 5	QMP1350-183	POWER CORD		1		

PC-X105 C/J

JVC

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